

Visio 2010

Stephen Moffat, The Mouse Training Company

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Visio 2010



Visio 2010

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Strømmen produseres ofte langt fra der den skal brukes.

Statnett sitt oppdrag er å gjøre strømmen tilgjengelig, uansett hvor i dette langstrakte landet du bor. Det er vi som bygger og drifter "riksveiene" i norsk strømforsyning. Gjennom vårt landsdekkende nett sørger vi for en sikker fordeling av strøm mellom nord, sør, øst og vest.

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HELT GRATIS!

S for Skikk & Bank

En bok om ting som er greit å vite når du har flyttet hjemmefra.

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DNB

Bank fra A til Å

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About this Manual

Whilst every effort has been taken to produce an error free manual from time to time Microsoft updates their applications and features may change.

All graphics related to Microsoft in this book is in compliance with Microsoft guidelines and thus permitted by Microsoft.

Icons used in this manual



Warning Take note when you see me



User Tip



Keyboard Short Cut Available

Introduction

Microsoft Office Visio 2010 is drawing and diagramming software that helps make it easy for IT and business professionals to visualize, explore, and communicate complex information. Go from complicated text and tables that are hard to understand to Visio diagrams that communicate information at a glance. Instead of static pictures, create data-connected Visio diagrams that display data, are easy to refresh, and can dramatically increase your productivity. Use the wide variety of diagrams in Office Visio 2010 to understand, act on, and share information about organizational systems, resources, and processes throughout your enterprise.

First Look at Visio 2010

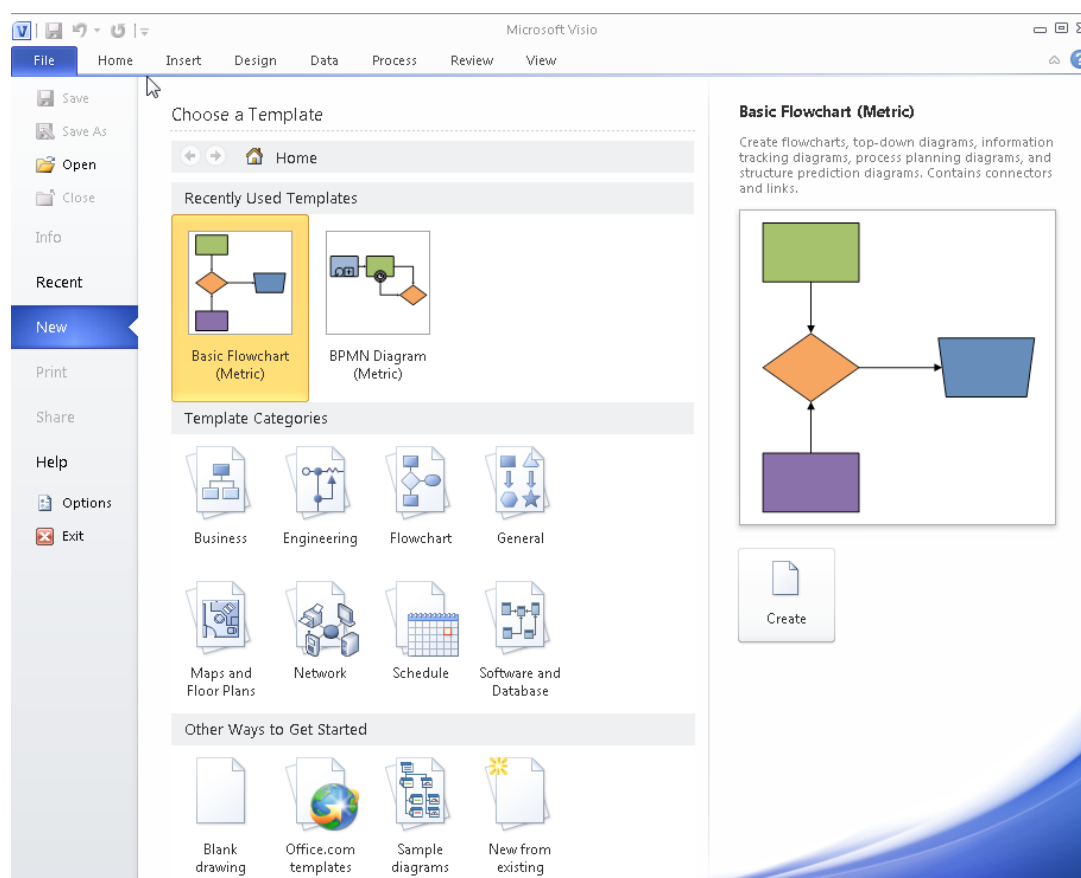
Microsoft Visio 2010 is a tool to create a great variety of drawings ranging from network diagrams to calendars and from office layouts to flowcharts. Visio 2010 creates professional visual documents to help analyse and communicate complex information, systems, and processes.

With Visio 2010 you can improve your understanding of systems and processes, gaining insight into complex information.

Getting Started

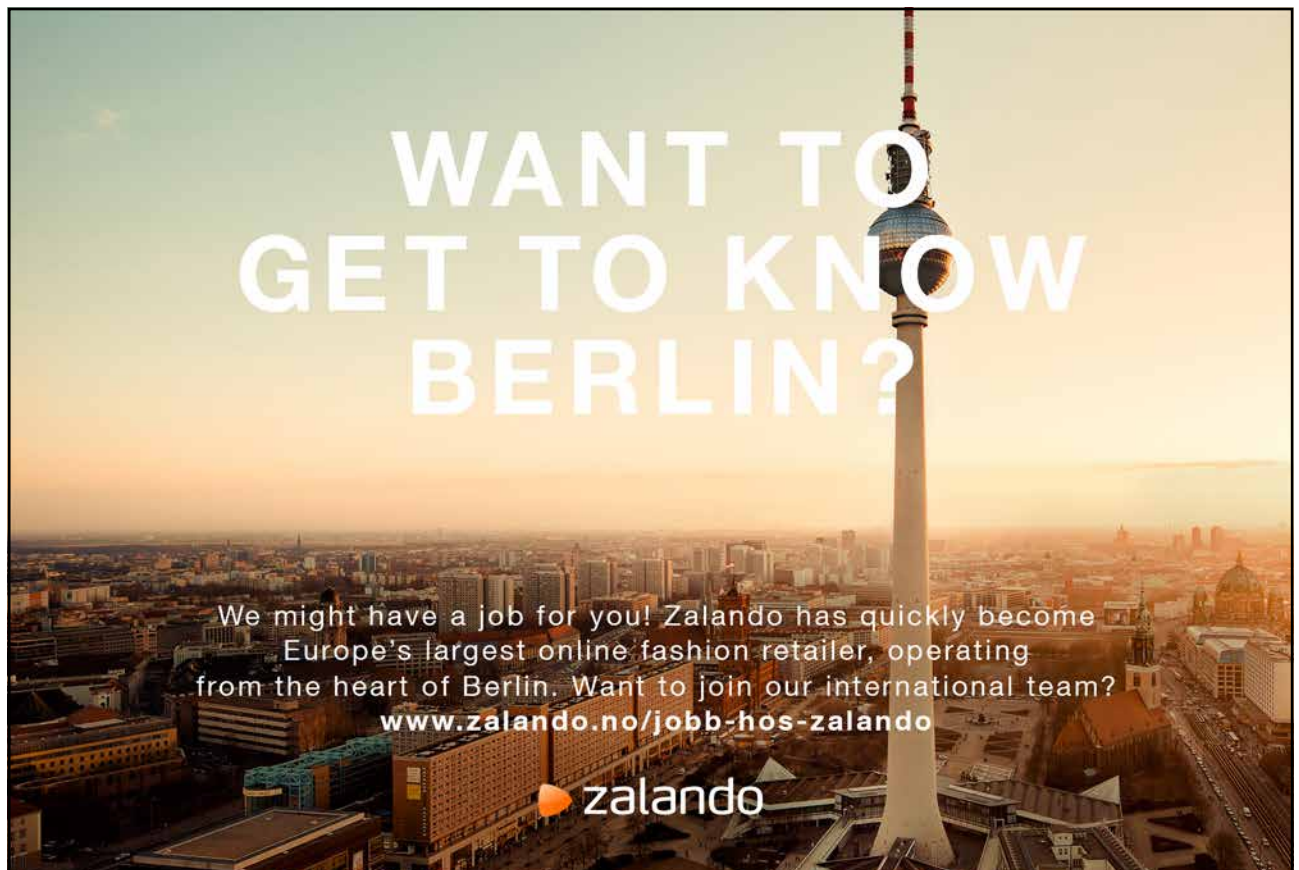
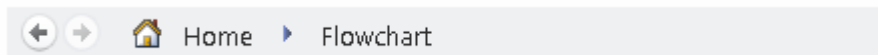
When you open Visio 2010 the first window that is displayed, by default, is the **Choose a Template** window, showing you recently used Templates.

The screen is laid out in to three parts, on the left side a simple navigation system that replaces the file menu, the template section that has browser type controls at the top of the screen, and to the right hand side of the screen a template preview window.



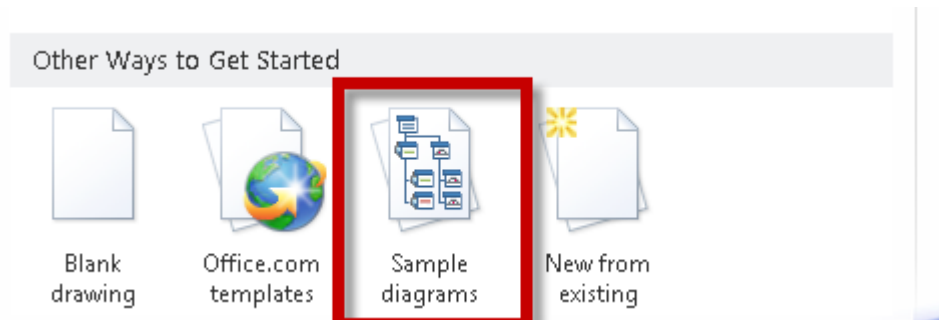
Selecting your template

- **Recently Used Templates** area shows templates that you have recently used.
- **Template Categories** area displays the template categories, clicking on a category displays all the templates associated with that category. **Double Click** on the template to open it or **select the template and click** the create Button
- If you have selected the wrong group click on the **Home** icon to take you back to the Template category section and the reselect the correct template.

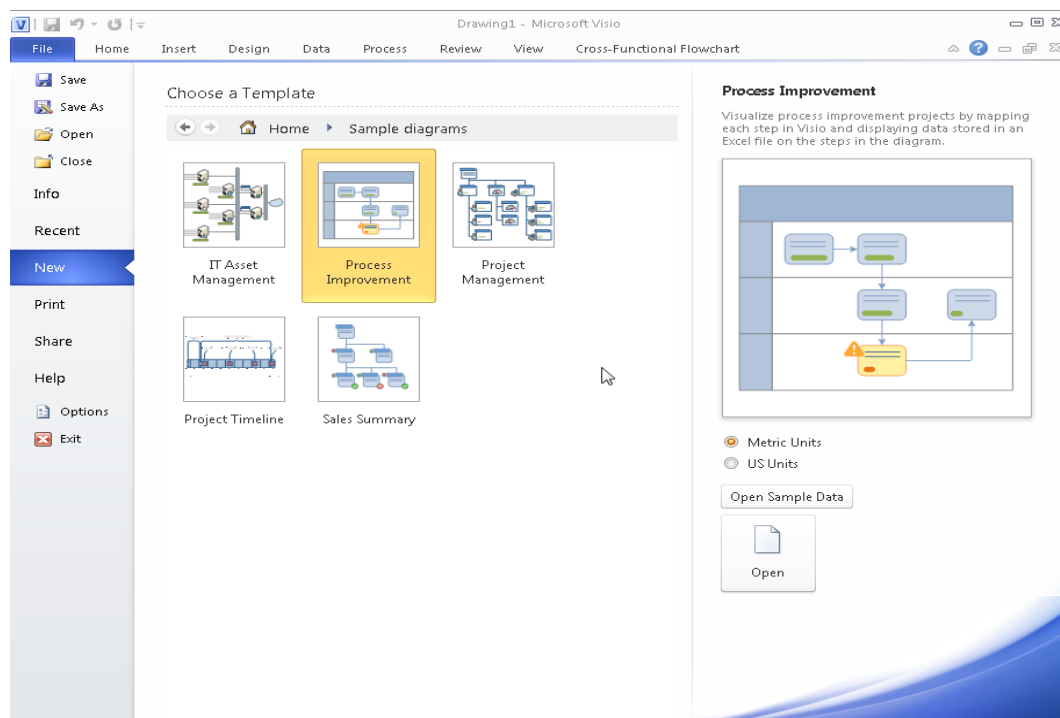


Open a sample File

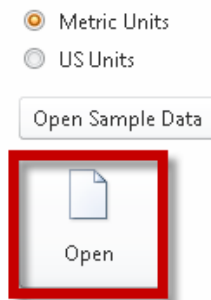
Before we explore creating Visio diagrams, we first explore the Visio sample files. From the home page Navigate to other ways of getting started, and click on **Sample Diagrams**.



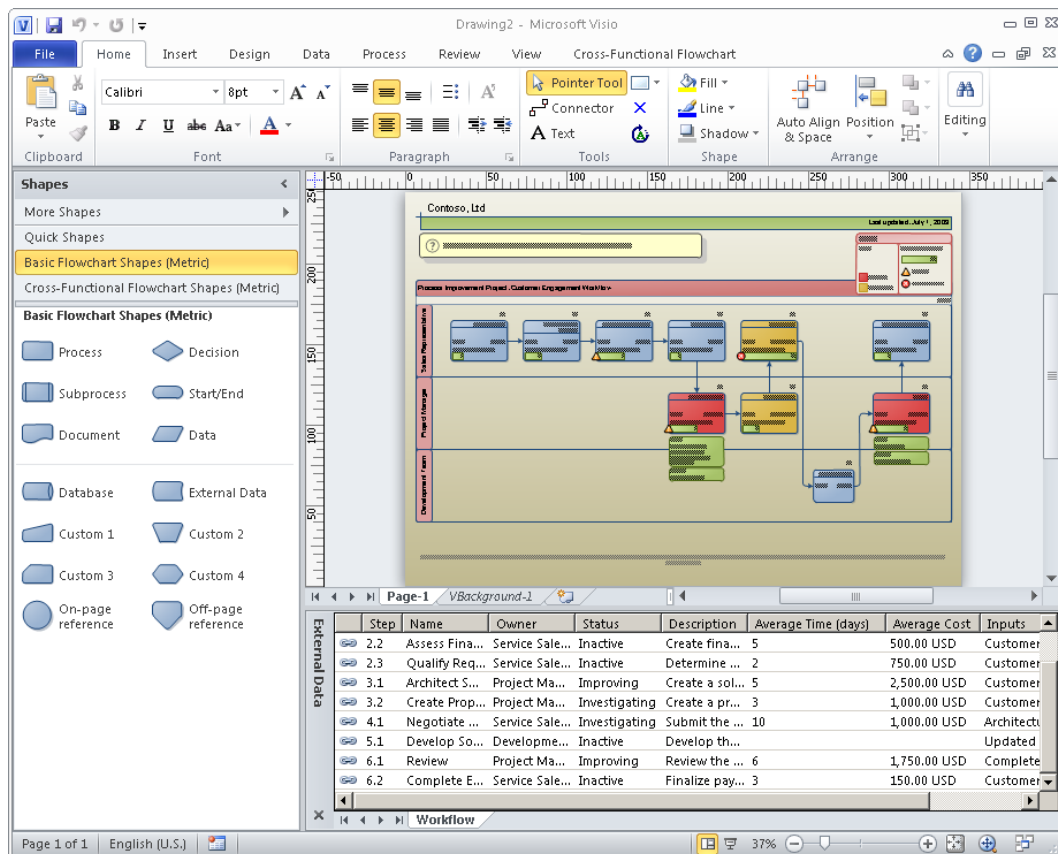
- Your screen will now look like this



- Select Process Improvement then choose either metric or us units then Click the open Button




- You should now see the diagram as illustrated bellow






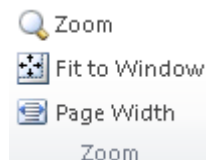
Zooming

You probably have difficulty reading the text on the diagram so we can use the zoom control located bottom left of the screen




Sliding to the right or using the (+) key to zoom in or slide to the left or click on the (-) key to zoom out.  Normal View.

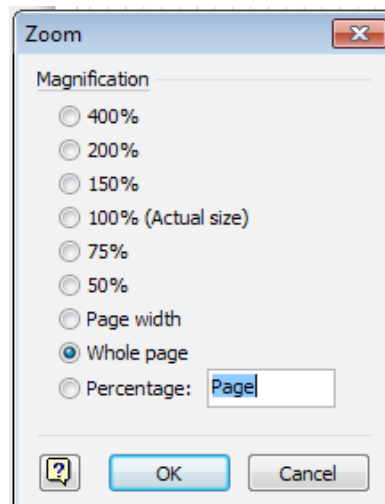
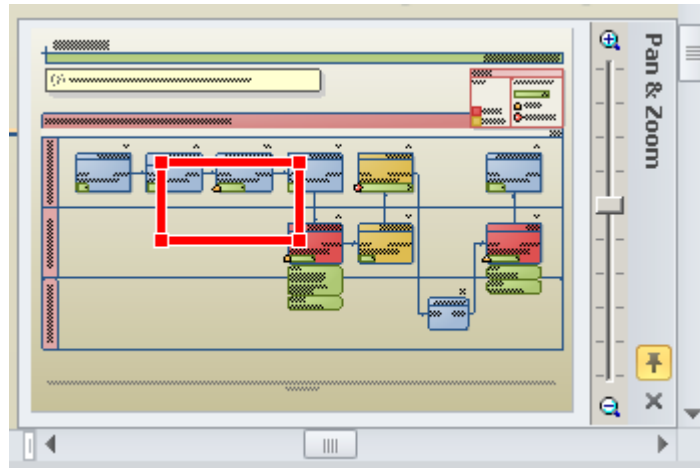
Fit to Page,  Pan and Zoom Window,  Switch Windows,  Full Screen



You can also zoom from the view tab and the zoom Group Or by using the **CTRL + Mouse Wheel**

Pan and Zoom

Click The  Pan and Zoom Window Icon this will display the pan and zoom window as displayed below.



As you move the slider control towards the top of the screen and the red square gets smaller zooming in on the highlighted area, Drag the red square around the screen to zoom in on the underlying area,

You can also Click and drag the mouse within the pan and zoom window to draw the red box. Your drawing page will be zoomed to the selected area.



Clicking on the pushpin to turn on auto hide

Click the cross to close the pan and Zoom Window.

A circular collage of eight news snippets from various sources, including 'RUSSIAN NUCLEAR CORP', 'LUXURY GOODS MARKET LONDON', 'TROUBLED LONDON BANK', 'CHINA PAYS PREMIUM FOR FINANCIAL', 'AFRICA HEALTH MINISTERS', 'US FIRM PLUTONIC', and 'INDIAN NUCLEAR POWER CORP'. The text 'WHILE YOU WERE SLEEPING...' is written in large white letters to the right of the collage. The Duke University Fuqua School of Business logo is in the bottom right corner, and the website 'www.fuqua.duke.edu/whileyouweresleeping' is at the bottom left.

WHILE YOU WERE SLEEPING...

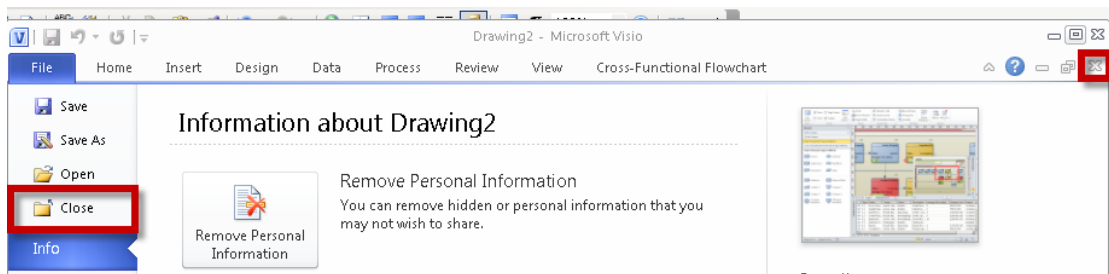
DUKE
THE FUQUA
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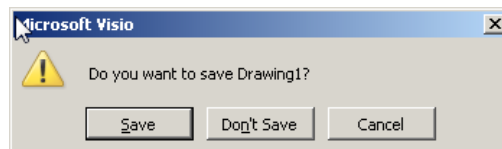


Closing a Diagram

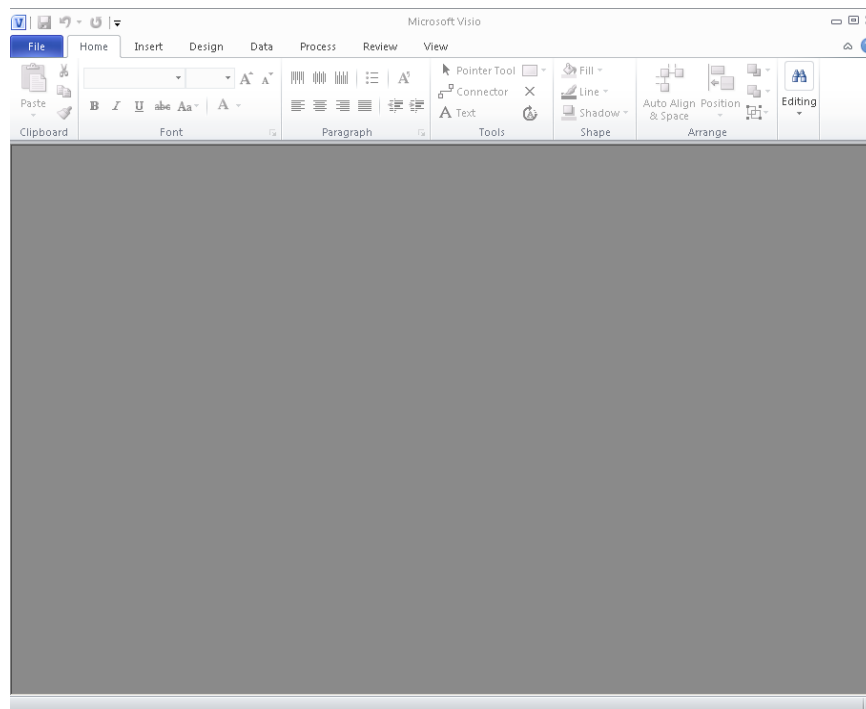
From either the file menu click **Close** or click the  **Button**



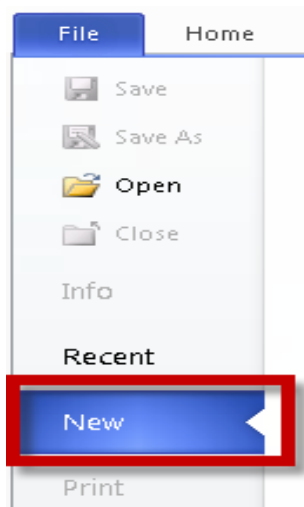
This will close your drawing. Click don't save to continue.



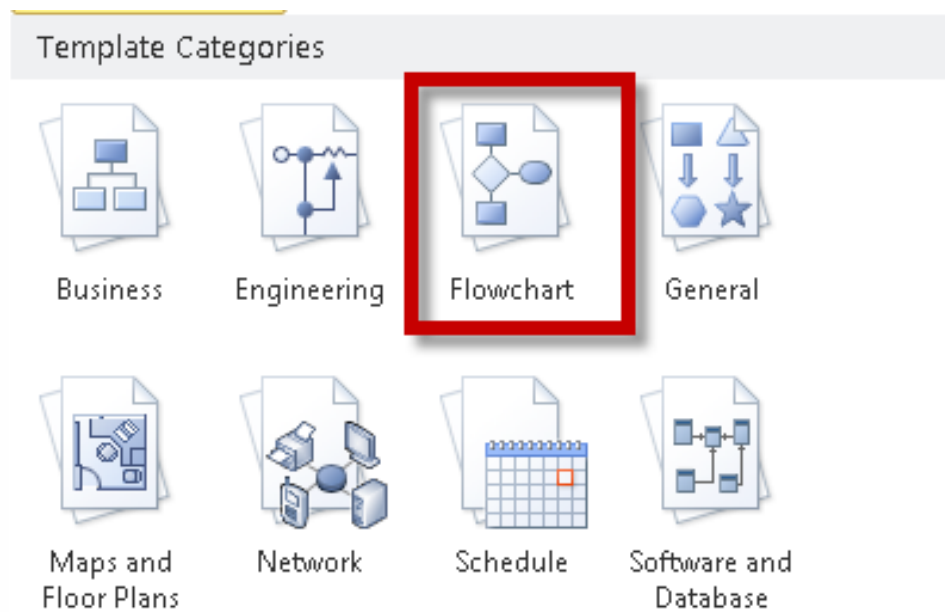
Your Screen will now look as the illustration below



- To redisplay the home screen click the file tab
- Then click the new Button.

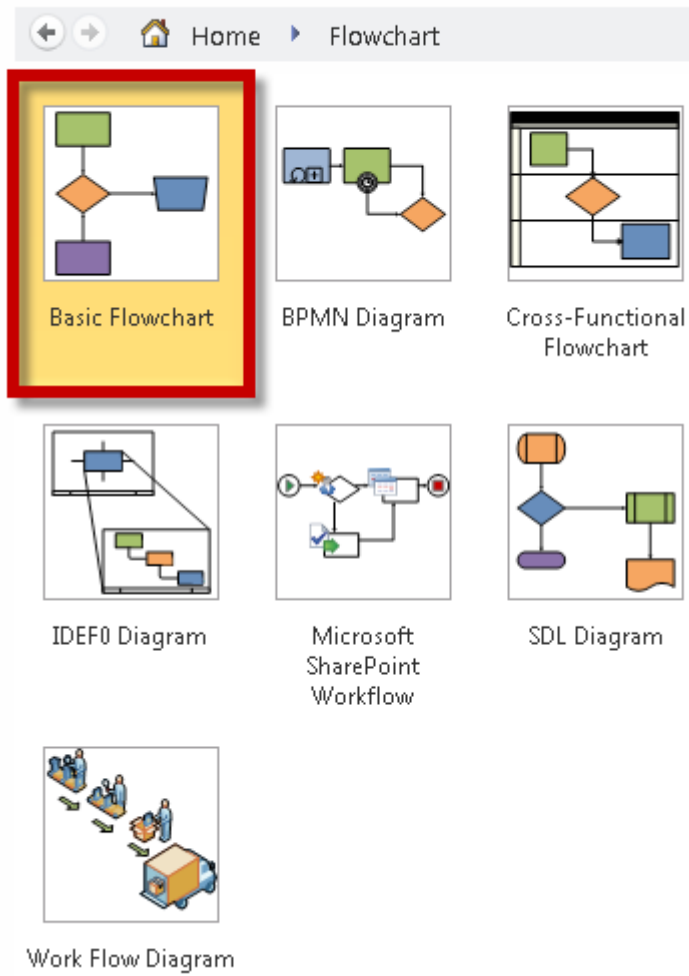


- From the categories areas select flow Chart.

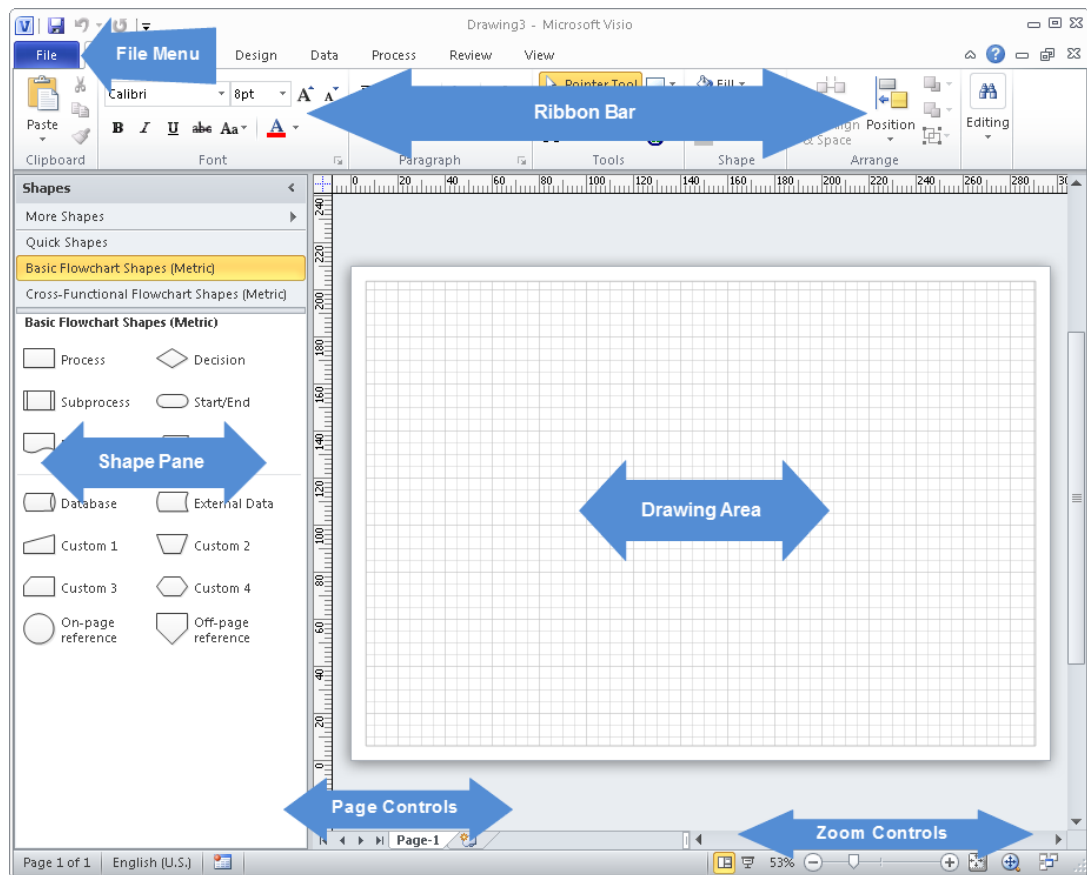


- Select Basic Flow Chart.

Choose a Template



Visio Screen Layout



The File Menu whilst part of the ribbon bar this is the only tab that still resembles a menu, the remainder follows the ribbon layout introduced in office 2007.

Visio Ribbons

Ribbons are tabs that show different commands with respect to what you wish to do. Those are divided to sections in order to group the similar tools together. The **HOME** ribbon shows basic commands



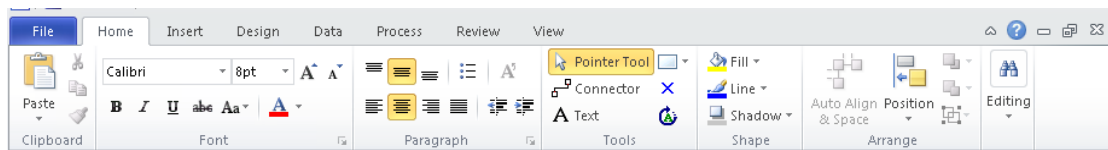
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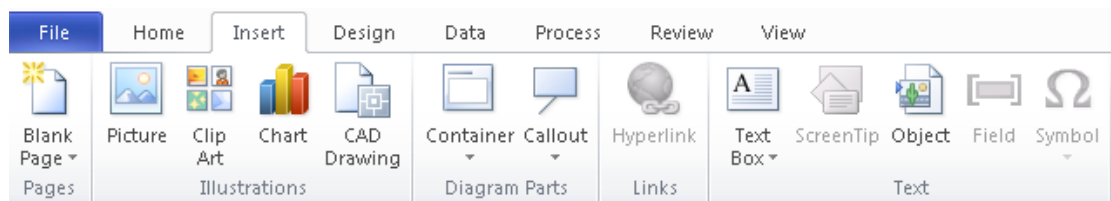


The Home Tab



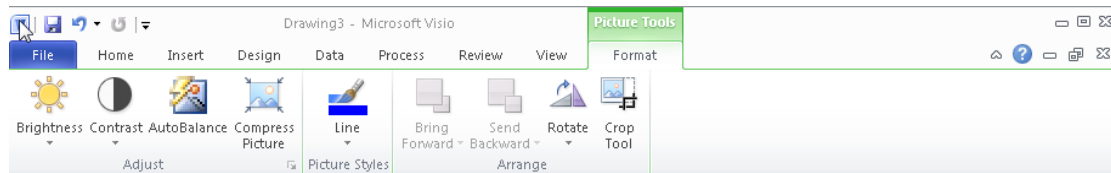
Most Common features are found on the home Tab

The Insert Tab



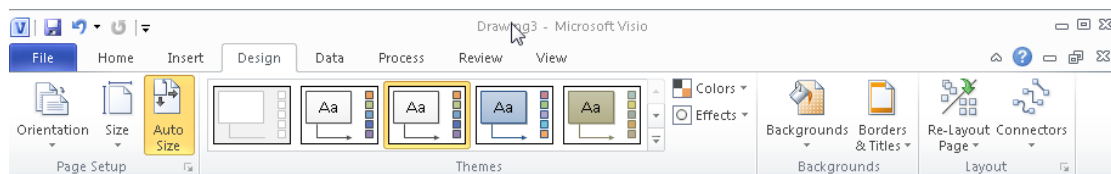
The way to think of this tab is if you are going to insert an object look here first

Contextual Tabs



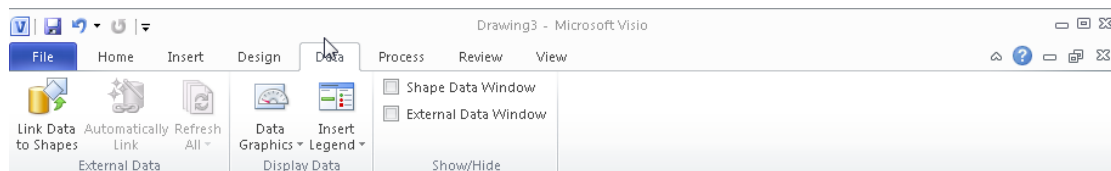
These tabs only become available when you perform certain tasks

Design Tab



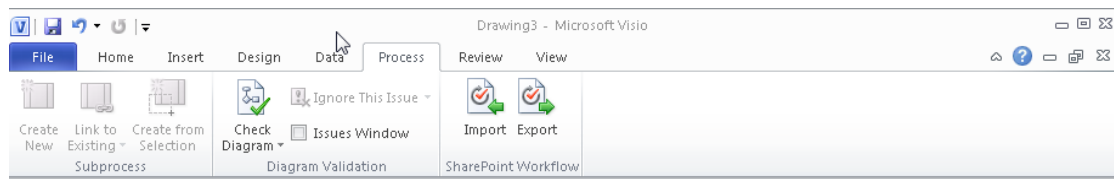
Page set up Themes and backgrounds and connector layout

Data Tab



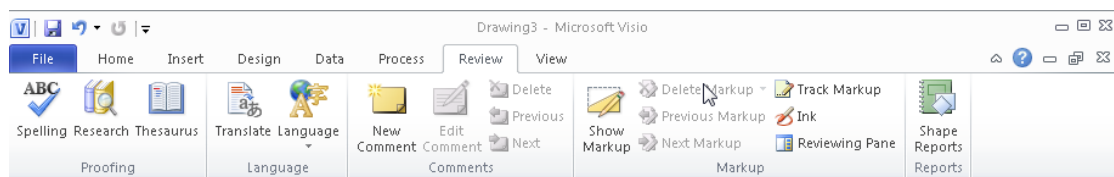
This tab allows quick connection to external data sources some new graphics to show shape data also found here

Process Tab



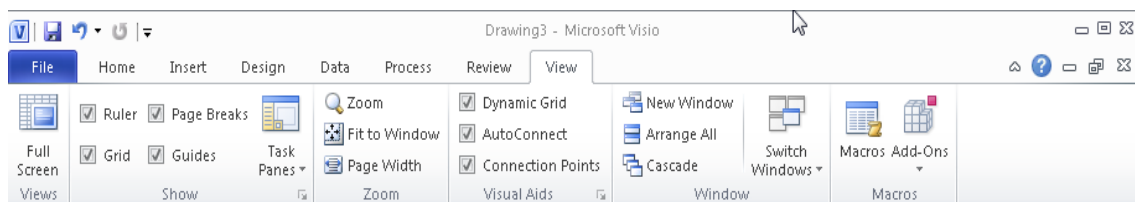
Some nice features here **check diagram** and access to SharePoint

Review Tab



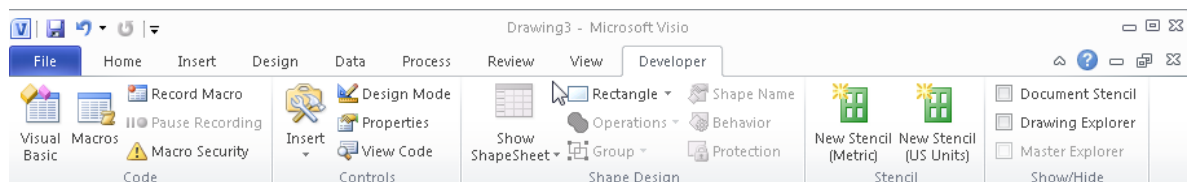
The Reviewing Pane displays all of the changes that currently appear in your drawing, and allows other users to comment on your drawing. Also all your spelling and thesaurus options are found under this tab you also generate shape reports from here as well.

View Tab



Grid options, zoom options and windows options are found here you may wish to turn off auto connect from here.

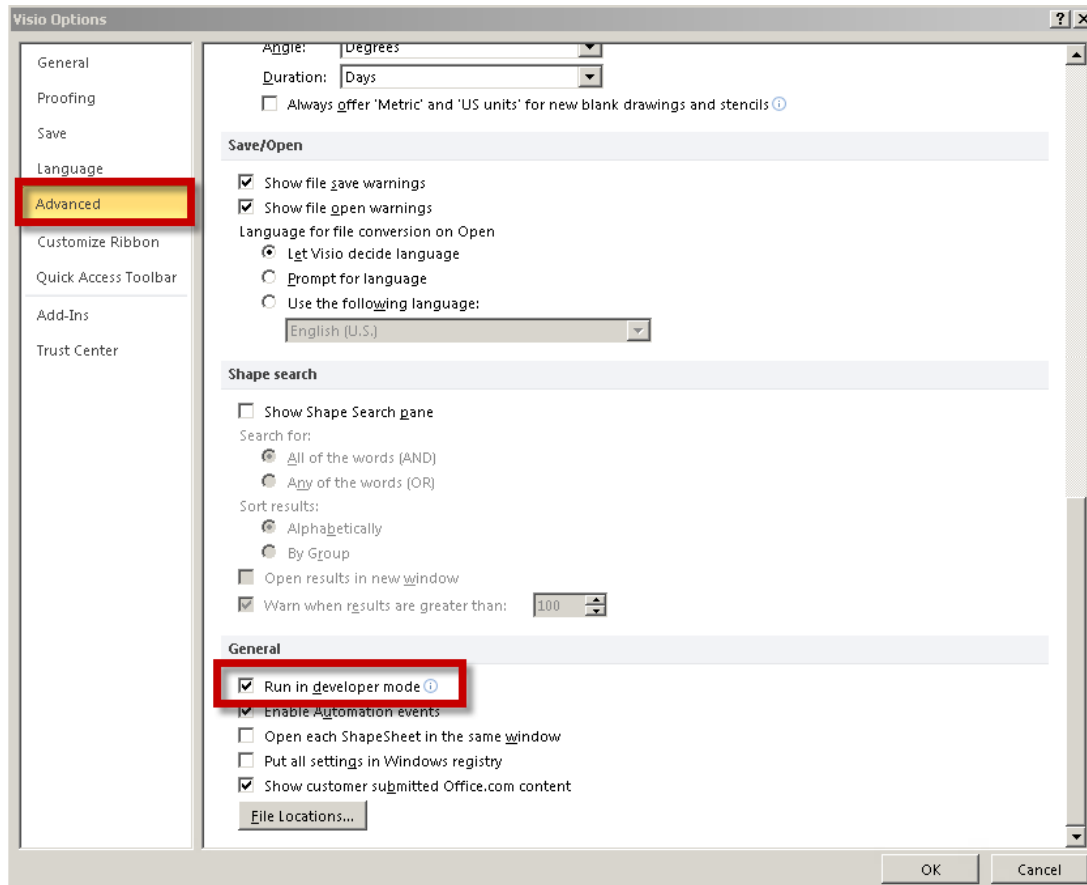
Developer Tab



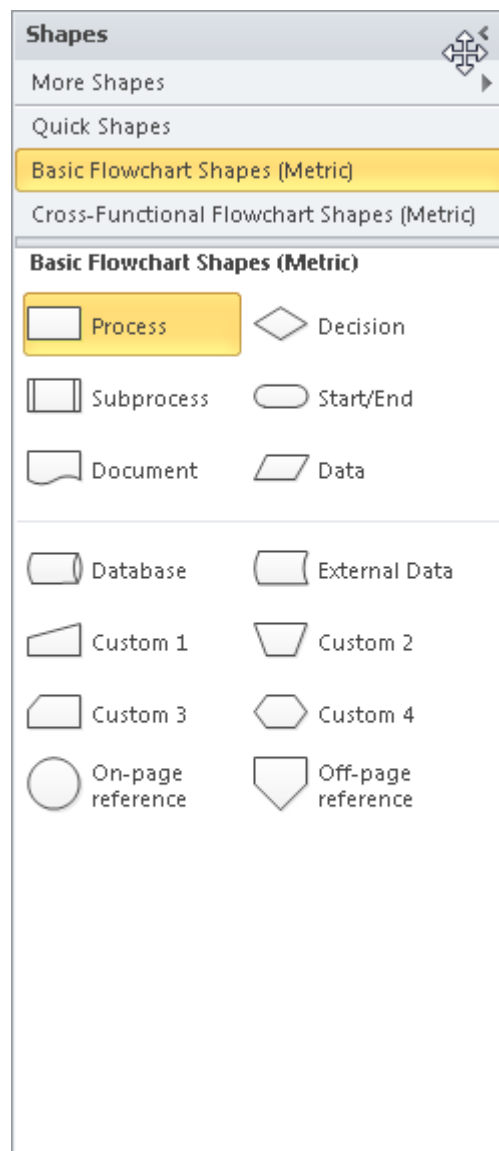
The developer tab by default is hidden but it is well worth turning on to access shape operations and the shape sheet window

Turn on Developer Tab

- Select the file tab.
- Go to options.
- Select Advanced.
- Scroll down to General. Check click in developer mode.



The Shape Pane



The shapes pane contains different shapes under different tabs; these tabs are known as stencils. Different stencil sets open dependant on the template chosen. You can search for shapes and you create your own stencil set we will look at these later in the book.

The Drawing Page

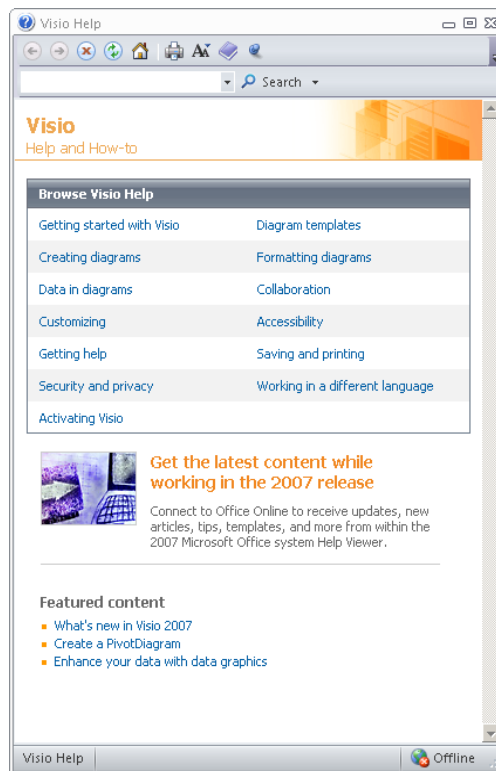
The drawing page is the main page where you design and create your visual content. You can drag the shapes and stencils on to the main page and a visual diagram or document.



The Task Pane

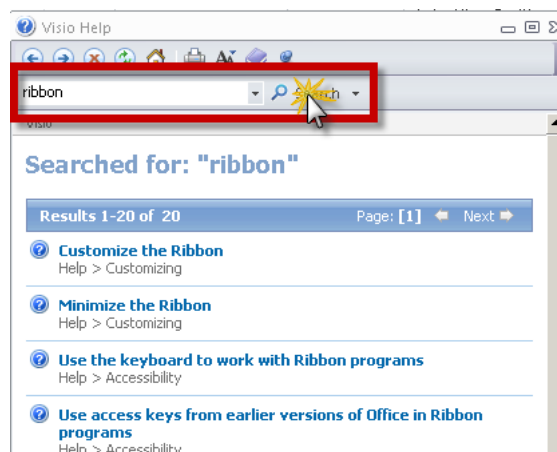
This no longer exists in this application; all the options are found on the ribbon.

Help for Visio



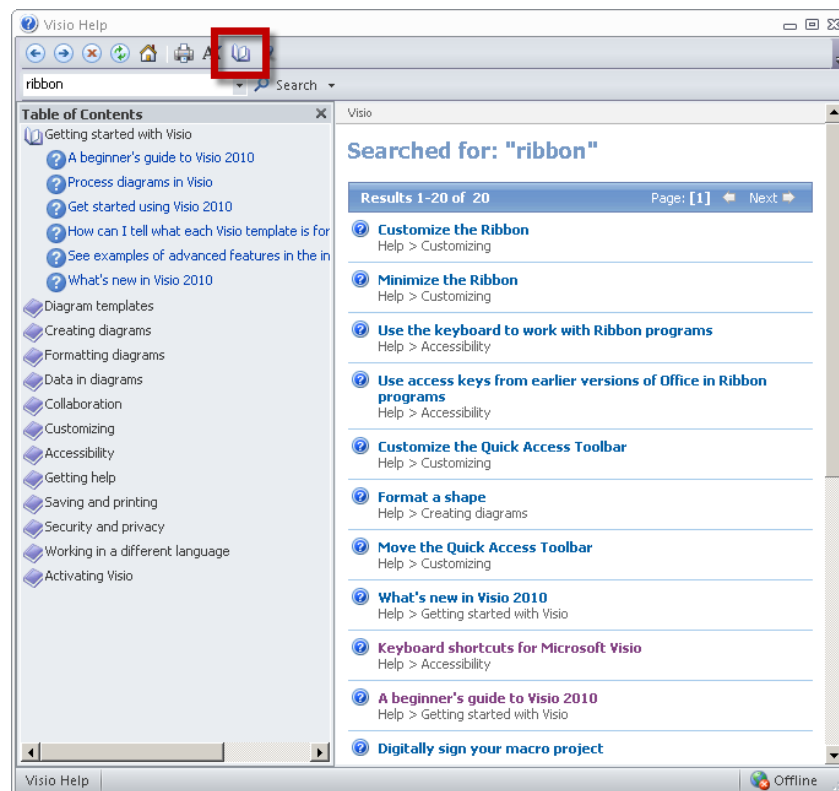
As with all Microsoft Applications Pressing **F1** will access help. You can also access help from the internet directly from Microsoft's website when you access help from the **File** menu.

You can select from the displayed topics or type in a topic to search for then click **Search**.

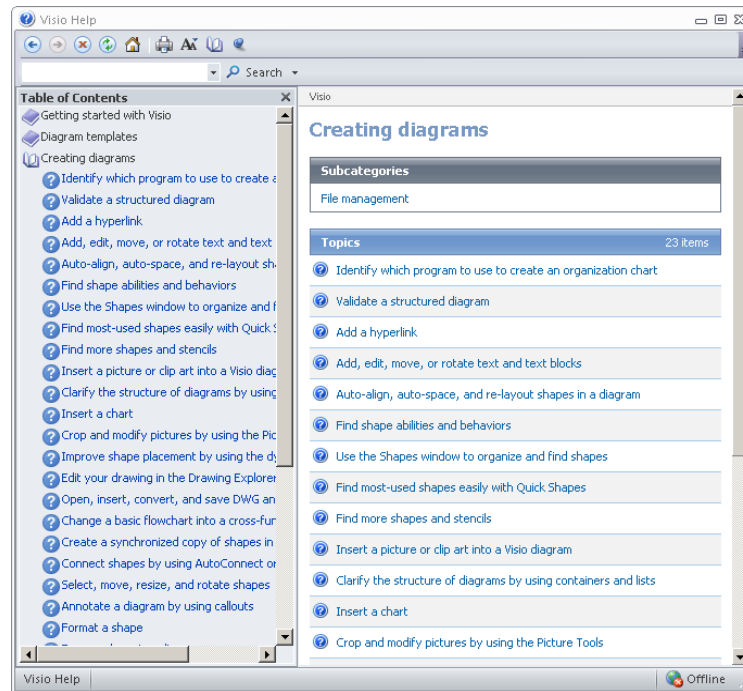


Extended Topics List

Click on the icon shown below in the help box to expand all Visio Topics Extended Topics List



Select Create diagrams for a comprehensive list of how to create diagrams



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Printing Help Topics

Click the  icon to print your help topic.

Visio Online Help

www.microsoft.com/office/visio

***** Close Visio without saving any changes. *****

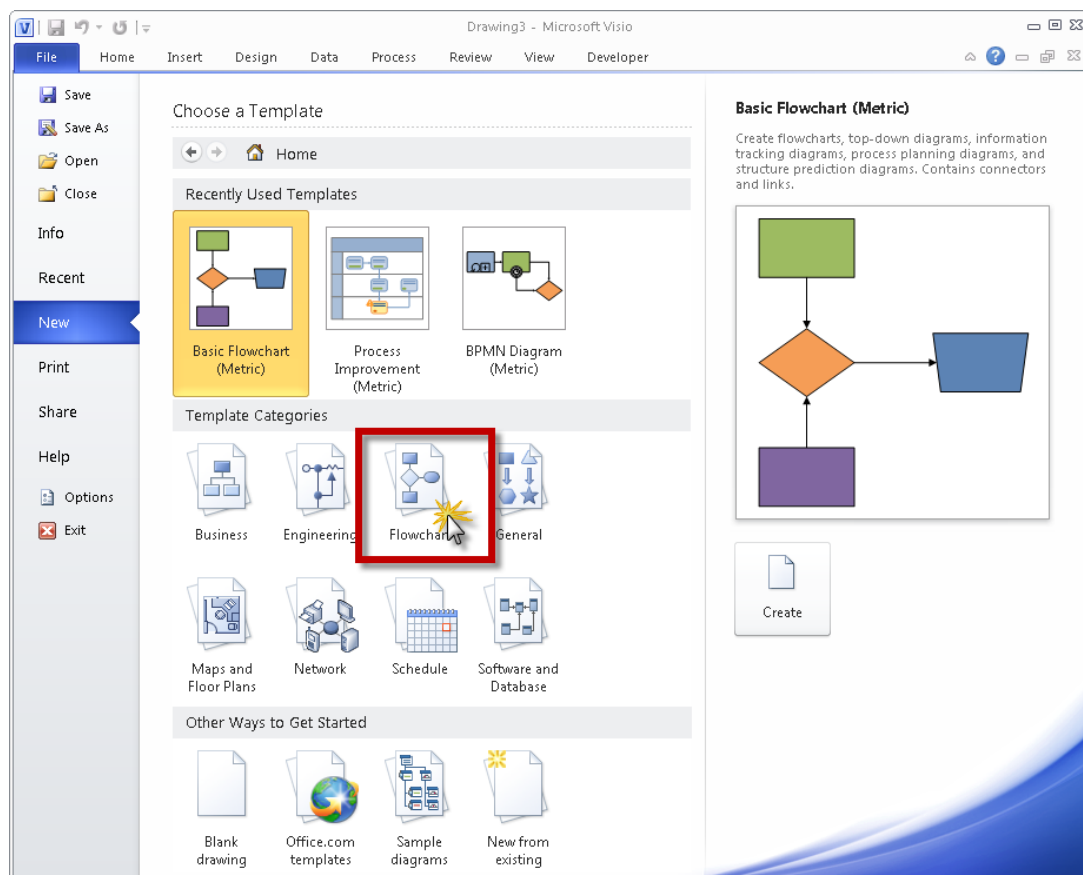
Working with Drawings

Using Templates

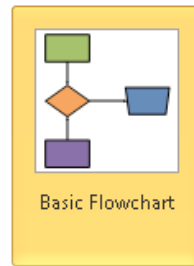
We will open a basic flowchart and then learn how to add shapes.

Launch Visio 2010

From the template categories select Flowchart

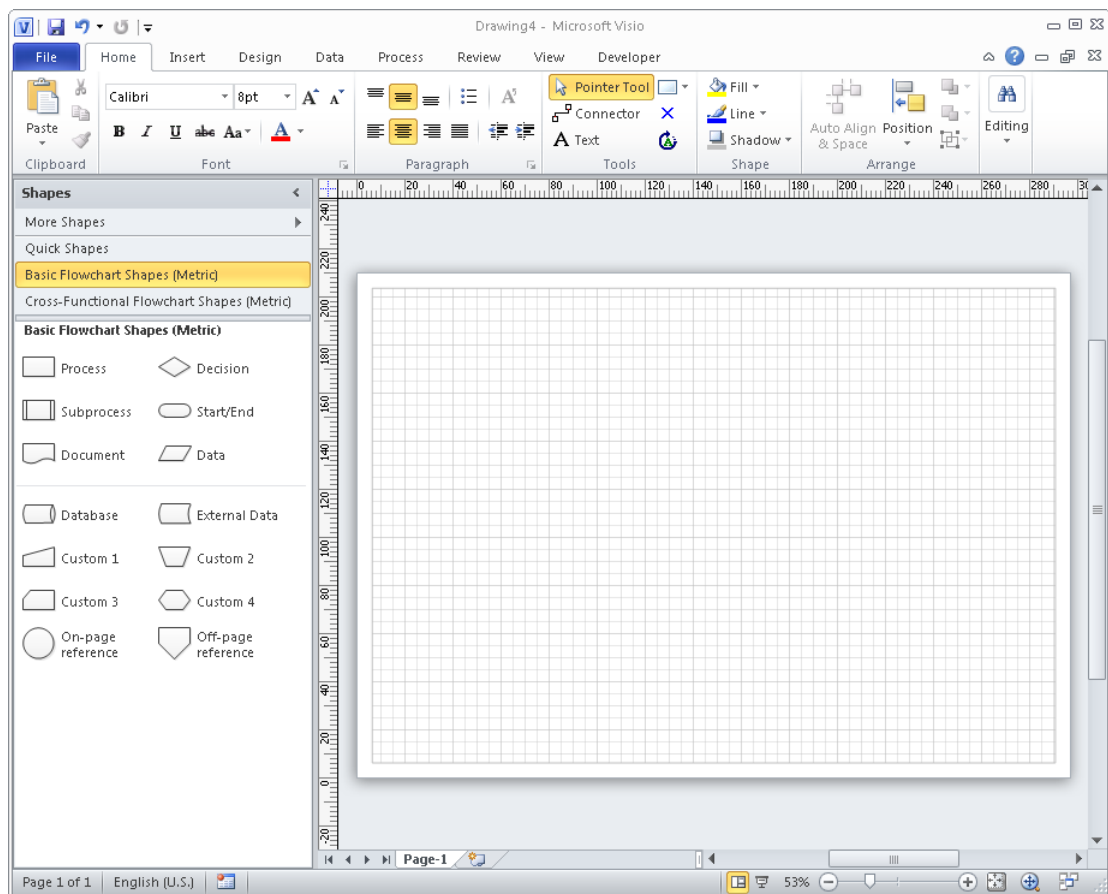


- Select Basic Flow Chart



- Select the correct unit of measurement and click create.

The screen opens showing the appropriate stencils for the chosen template, in this case all the stencils related to flow charts.



Using Shapes

About Stencils

Stencils are a collection of shapes either predetermined by the template that you choose, or from a custom stencil you create, many stencils are available from the web some are free but others you will pay for a good place to start looking on the web is the **Visio Café**



Strømmen produseres ofte langt fra der den skal brukes.

Statnett sitt oppdrag er å gjøre strømmen tilgjengelig, uansett hvor i dette langstrakte landet du bor. Det er vi som bygger og drifter "riksveiene" i norsk strømforsyning. Gjennom vårt landsdekkende nett sørger vi for en sikker fordeling av strøm mellom nord, sør, øst og vest.

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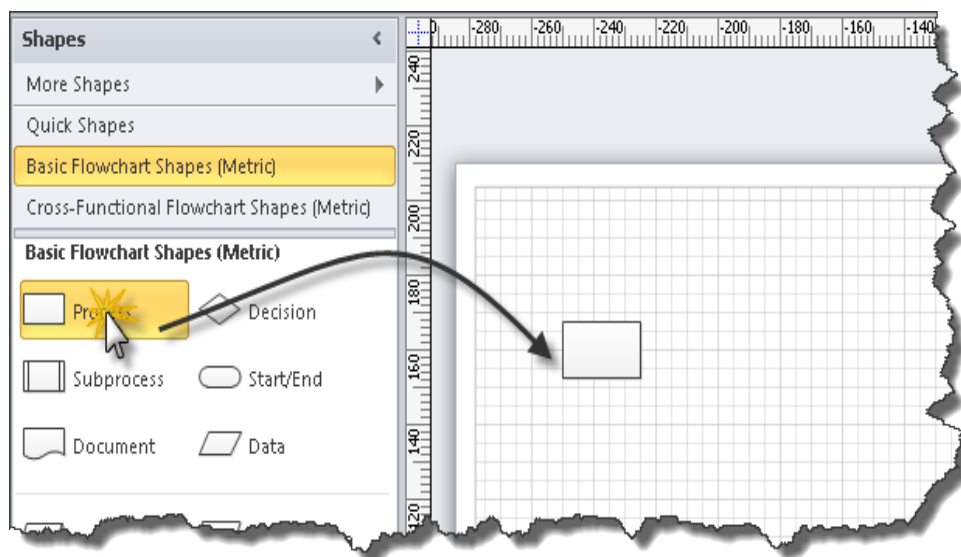
Visio File Extensions

Microsoft Visio Stencil (.VSS) .VSS is the file extension given to Visio stencils, Visio stencils are separate objects to the drawing which have file extensions of (.VSD) and you also have (.VST) these are Visio Templates.

Working with Shapes from a Basic Flow chart Template

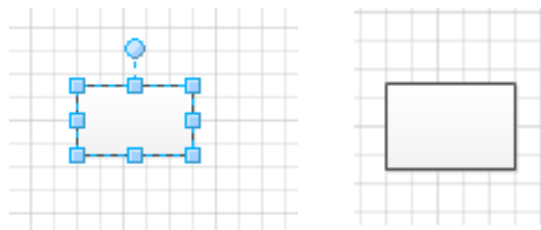
Adding a Shape to the drawing Area

To add a shape to the drawing, simply drag a shape from the shapes pane to the drawing window. Click on the left mouse button and whilst keeping the button depressed, drag the shape onto the drawing window

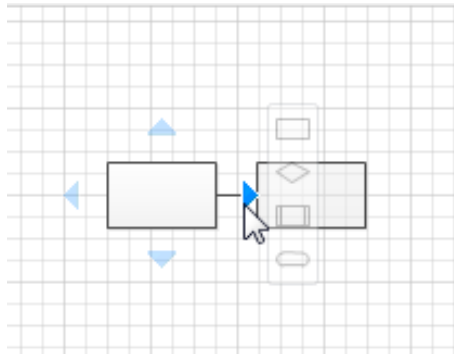


The Drawing pane above should now look like this

Click on an empty area on the drawing to deselect your drawing will now look like this.



Adding More Shapes



Move the mouse pointer over the shape but do not click, as you hover you will see a four way directional arrows, when you hover over that you are presented with a ghost shape box you can then select a shape from the ghost Box.



NOTE: if you click a shape from the shape pane then click on the arrow that shape will be added. Visio remembers the last shape used.

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Flere medlemsfordeler og innmelding: www.nito.no/student

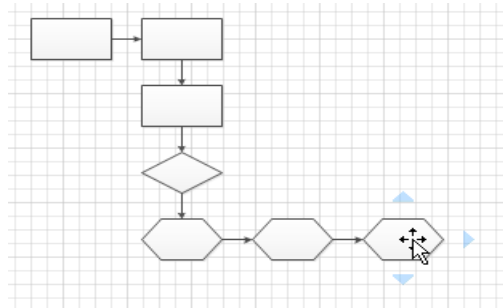
Alle som studerer på ingeniør-, bioingeniør-, sivilingeniør eller andre teknologistudier (høgskolekandidat, bachelor eller master) kan bli medlem i NITO.

NITO NORGES STØRSTE ORGANISASJON FOR INGENIØRER OG TEKNOLOGER



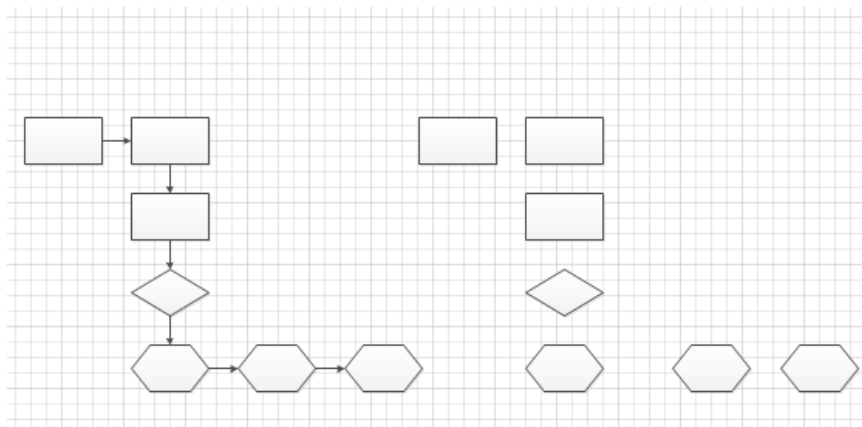
Auto Connect

Using the method described allows quick building of diagrams in Visio 2010

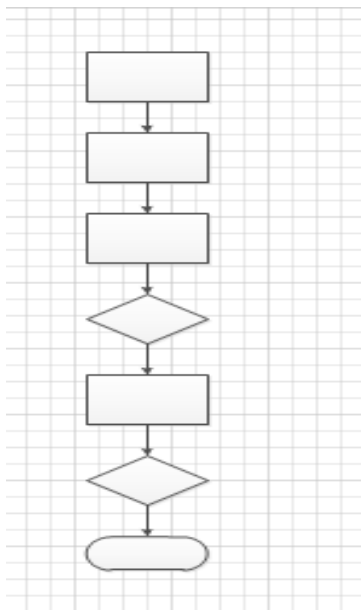



NOTE: using this method shapes self join. Auto Connect can be unchecked from the view tab, visual aid group.

The drawing below shows how dragging the shapes out no joins are made between shapes.



Layout your screen as follows



NOTE: if when adding shapes to your drawing you make mistakes you can either press **CTRL+Z (undo)** or use the undo icon from the quick access toolbar 



Skatteetaten



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Skatteetaten tilbyr store fagmiljø og utfordrende oppgaver innen:

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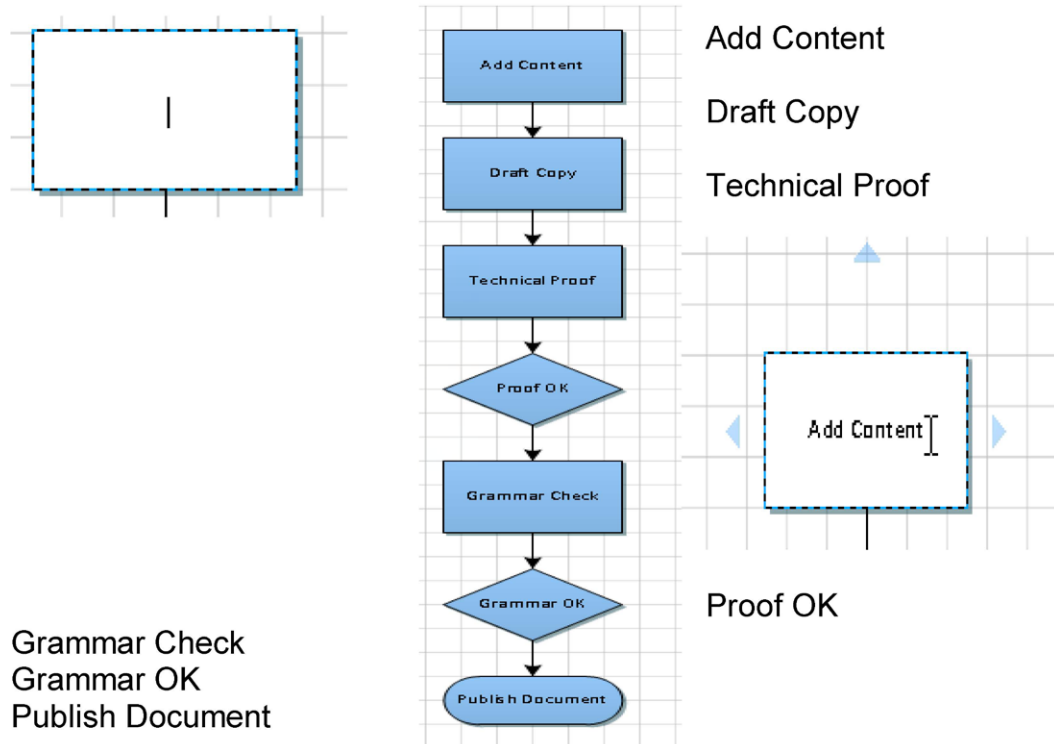
For mer informasjon se skatteetaten.no/jobb

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Adding Text to the shape

We have now created a basic flow chart, but without any text on the shapes the drawings are meaningless. To add text to the shape either **Click** on the shape and start typing, two things happen you are taken into edit mode and Visio zooms in to the shape to assist you typing making the text easier to type in Double Clicking on a shape Does the same. Add the text to your diagram as shown below.



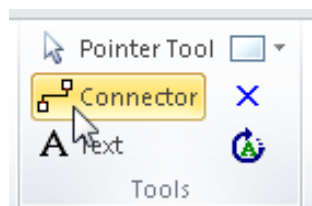
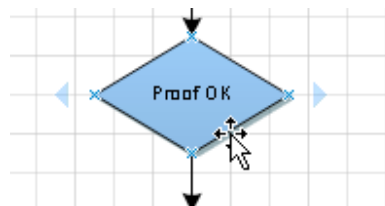
Manually connect shapes

Up to now we have let Visio Connect the shapes we have added; now we will add some shapes manually.

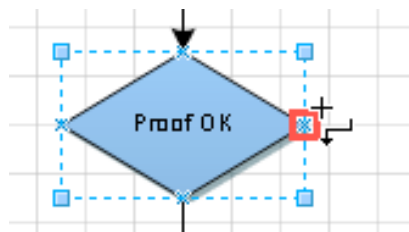
Look at the first diamond shape the **diamond is the industry standard** for a **decision** at present the work flow follows through to grammar check, we will add a path where as the proof is rejected taking us back to the previous process,

Adding the Connector

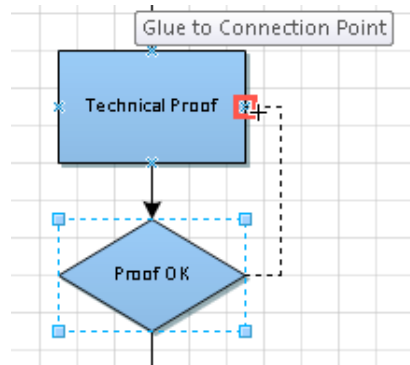
- Select the Diamond Shape.



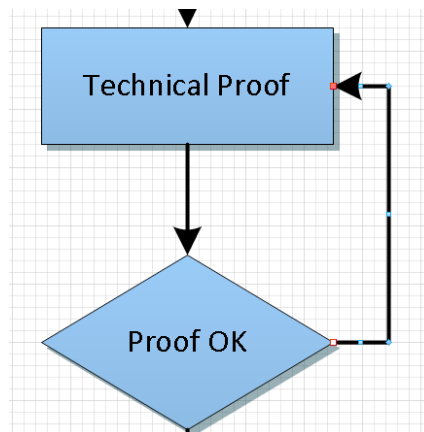
- Select the connector tool button from the home tab
- Move the mouse to the position shown below note the cursor has changed to reveal the connector tool. As you position to a point you can connect to the shape a small red square will appear.



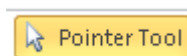
- Depress the left mouse key and drag the mouse pointer to the centre left edge connection point of the shape above



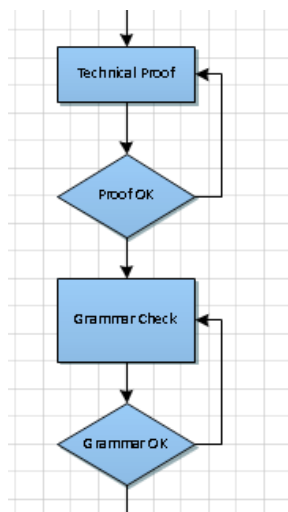
- Release the mouse Button and you will see a connector from the diamond to the rectangle above as shown below



Repeat the process to display drawing as shown right.



Once you have made the connection click back on the pointer tool.





OLJE- OG ENERGIDEPARTEMENTET



Er du full av energi?

Olje- og energidepartementets hovedoppgave er å tilrettelegge for en samordnet og helhetlig energipolitikk. Vårt overordnede mål er å sikre høy verdiskapning gjennom effektiv og miljøvennlig forvaltning av energiresursene.

Vi vet at den viktigste kilden til læring etter studiene er arbeidssituasjonen. Hos oss får du:

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www.regjeringen.no/oed



Se ledige stillinger her

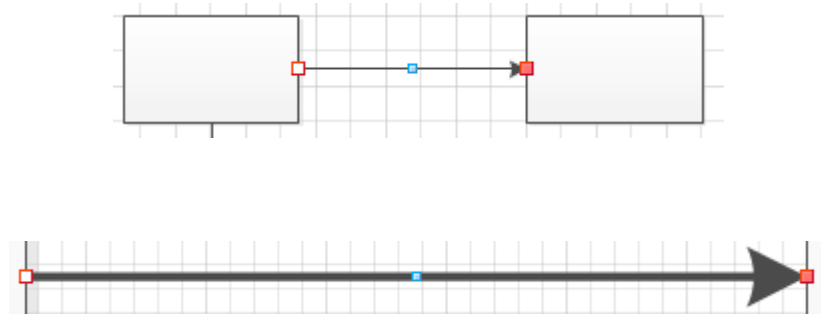
www.jobb.dep.no/oed



Connector types

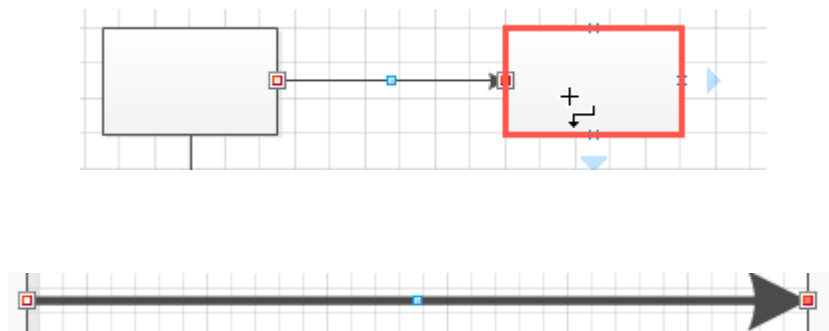
Static Connections (Also called point connection)

To keep the connector glued to a specific point on a shape, drag from a connection point on the first shape to a connection point on the second shape. The connector endpoints turn red when the shapes are connected. This is called a point connection.



Dynamic Connections (Also called shape to shape)

To allow the connector to move around the shape when the shape is moved, position the Connector tool over the centre of the first shape until a red box appears around the shape. Hold down the mouse button and drag to the centre of the second shape. When a red box appears around the second shape, release the mouse button. This is called a dynamic connection.



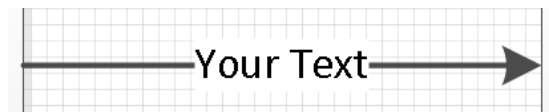
Notice the connection points the start point is a outline shape the end shape has a solid fill, also note that the shape to shape connector has an outline around the shape.

Add text to connectors

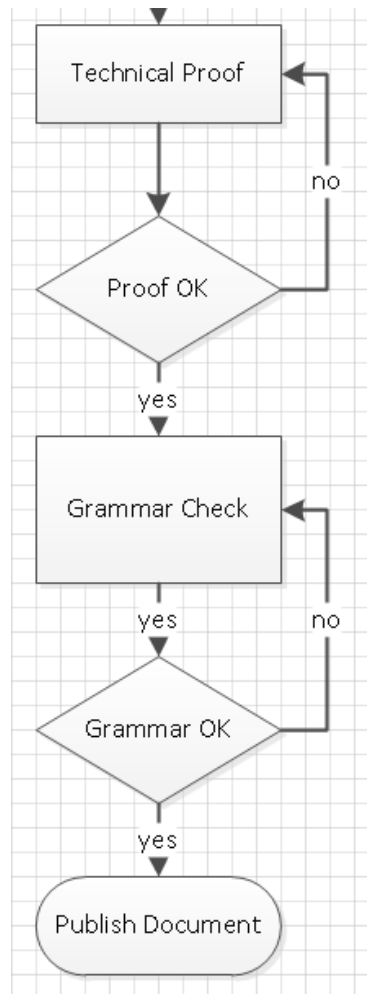
- Double click on the connector line to type in text



- Enter your required text then click away from the Line



- Layout you're Document as below.



Delete a connector

To delete a connector, first select the connector to delete and then press the **Delete (Del) Key on your keyboard**. Delete connectors on the page then use **CTRL+Z** to restore your document to its former state.



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En bok om ting som er greit å vite når du har flyttet hjemmefra.

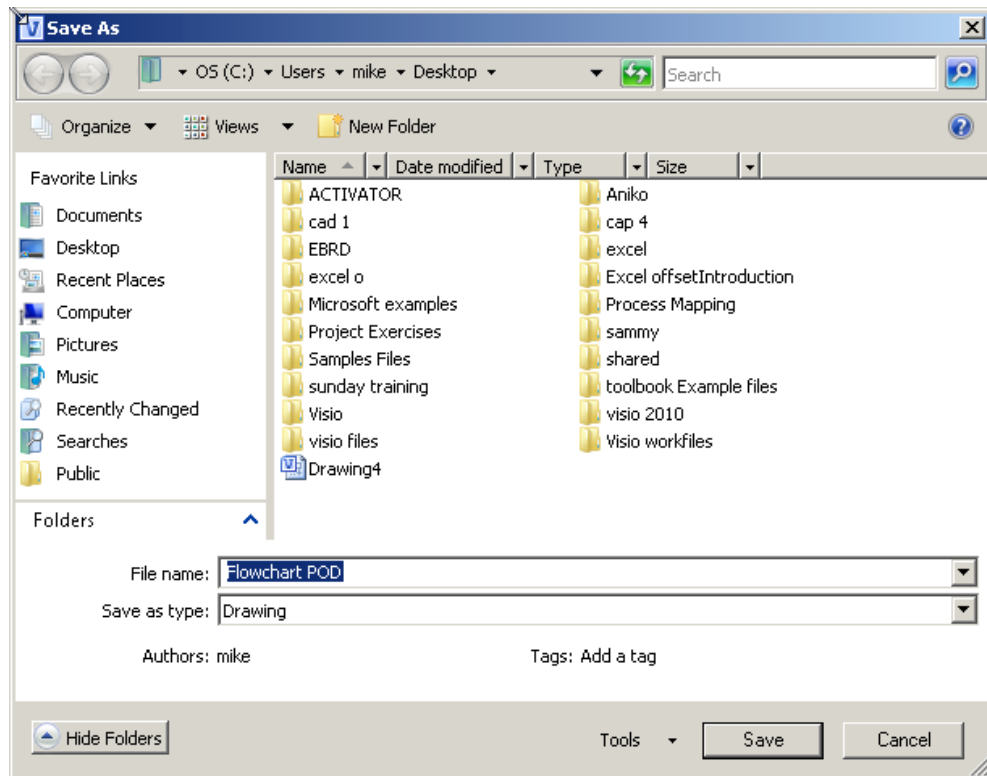
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Saving your work

- From the file menu select save the following Dialogue Box



- Enter your required file name

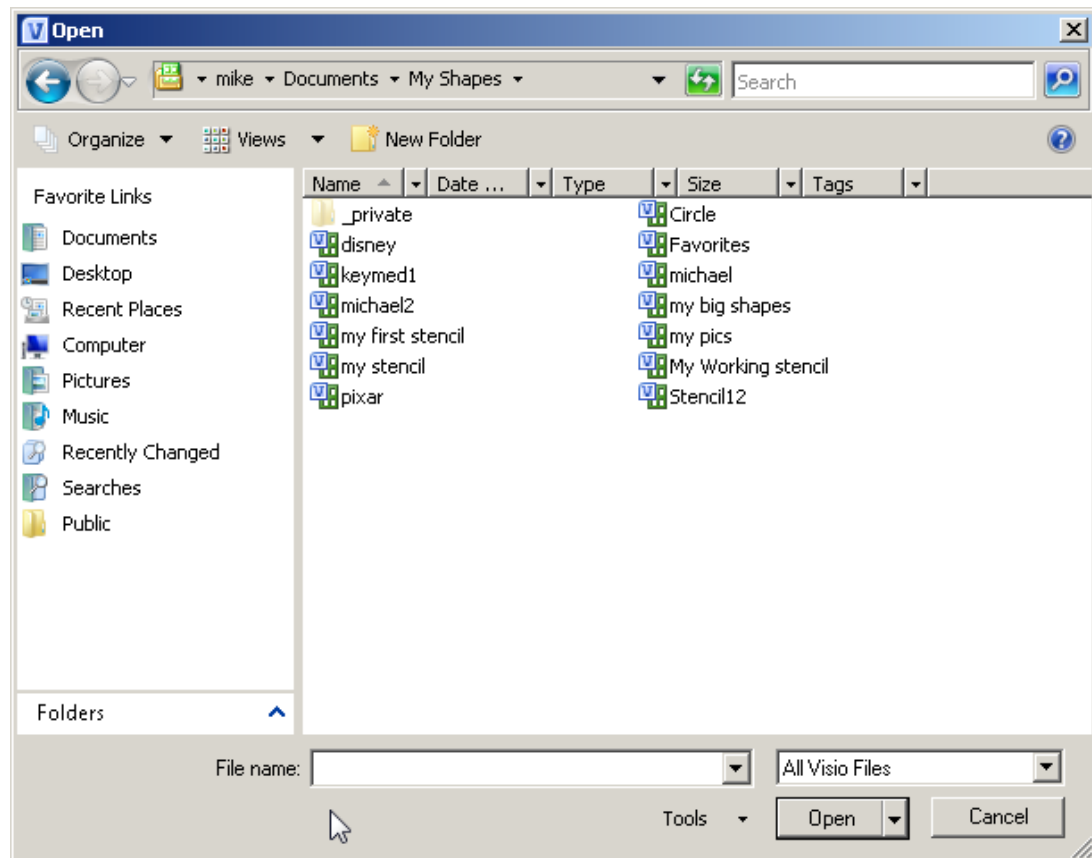
Save your drawing type if you are required to save for Visio 2002 you must select that option from the drop down list.

Close your drawing

Select file **Menu** and **close** or use **ALT+F4**

Open a previous drawing

- From the file menu select open this opens the file explorer dialogue box navigate to the correct folder and select the file you wish to open.



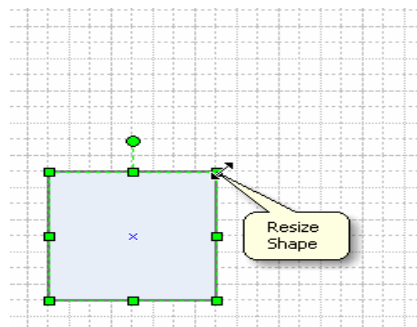
Manipulating shapes

Moving shapes

To move a shape click on the shape then drag it to the new position. Experiment moving some shapes on the screen.

Resizing a Shape with the Mouse

- Select the shape to be resized.
- Move the mouse pointer to the required **Resize** handle:
- Drag the handle until the shape is at the required size.

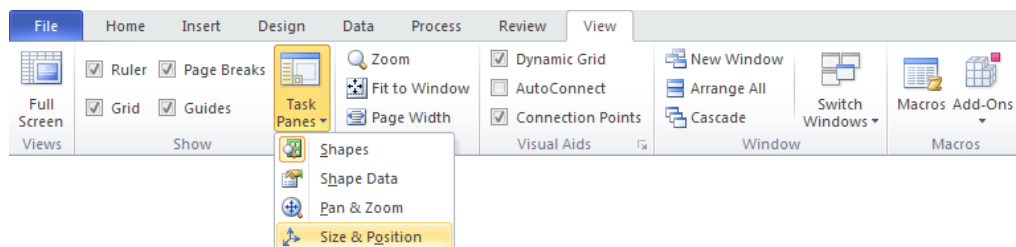


- Release the mouse button.

Click and drag on any corner when resizing to maintain the shape's height-to-width proportions.

Resizing a Shape with the Size & Position Window

- Select the shape to be resized.
- From the **View** Ribbon, **Show** section, **Task Panes** select **Size & Position**.



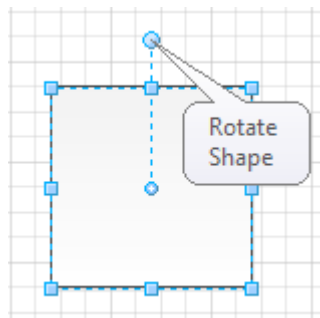
- the following window will appear in the bottom left of the screen:

Size & Position - Square X	
X	88 mm
Y	235 mm
Width	40 mm
Height	40 mm
Angle	0 deg
Pin Pos	Center-Center

- Increase/decrease the **Width** and **Height** values to change the size of the shape.
- The **X** and **Y** values refer to the position of the shape on the drawing page.

Rotate shapes

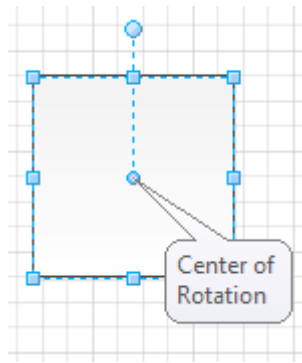
- Select the shape.
- Use the **Rotate** handle to drag the shape round as far as necessary:



Changing the Centre of Rotation

The centre of rotation is normally positioned in the centre of the shape and defines the point at which the shape will rotate. The centre of rotation can be moved at any time.

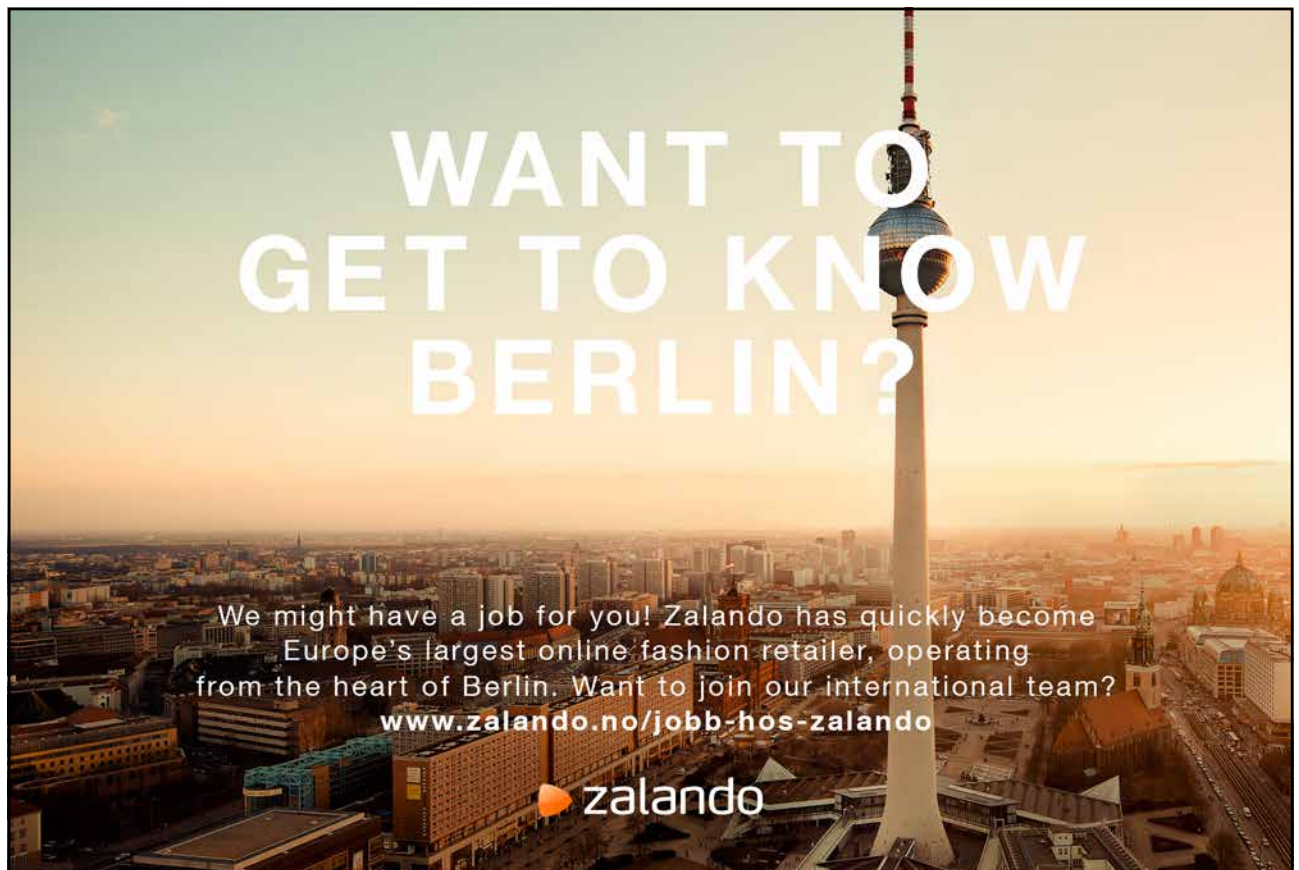
- Select the shape and move the mouse pointer over the Rotate handle (see above).
- The **Centre of Rotation** will appear in the centre of the shape:



Move the mouse over the centre of rotation and click & drag it to another position.

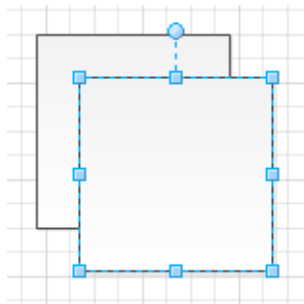
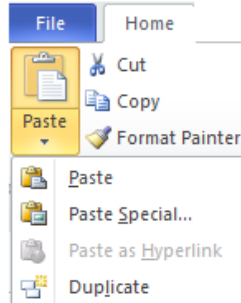
Deleting shapes

- Select the shape to be deleted.
- Press the **Delete** key.



Duplicating a Shape

- Select the shape to be duplicated.
- Select **Duplicate** from the **Paste** Button on the **Home** Ribbon, and a copy of the shape will appear directly beside the original:



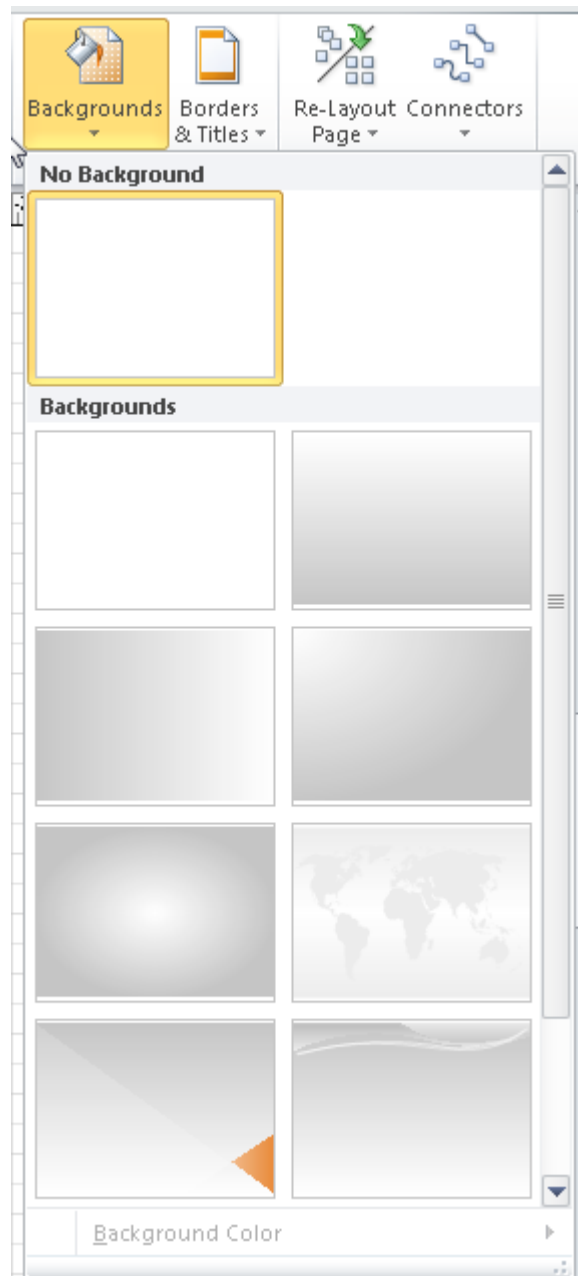
- **CTRL+D** will do the same.

OR

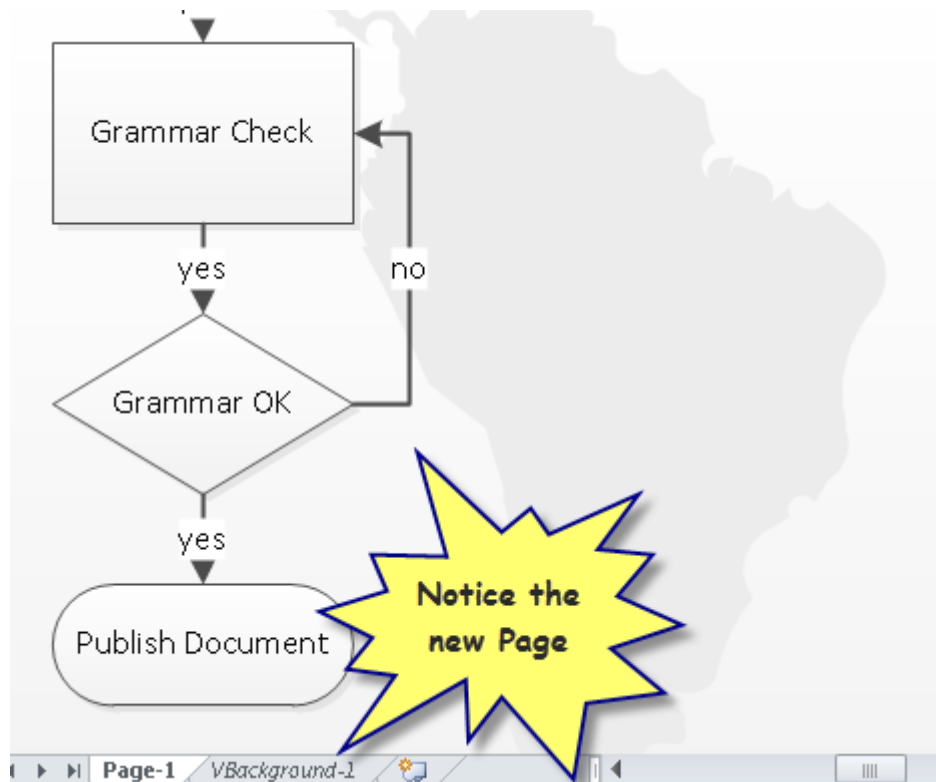
- Hold down the **CTRL** key and move the shape to its new position, a copy is created.

Adding Borders, Titles and Backgrounds

Access backgrounds from the design tab, these add styles to your page



- From the drop down list click on the background you want to apply.

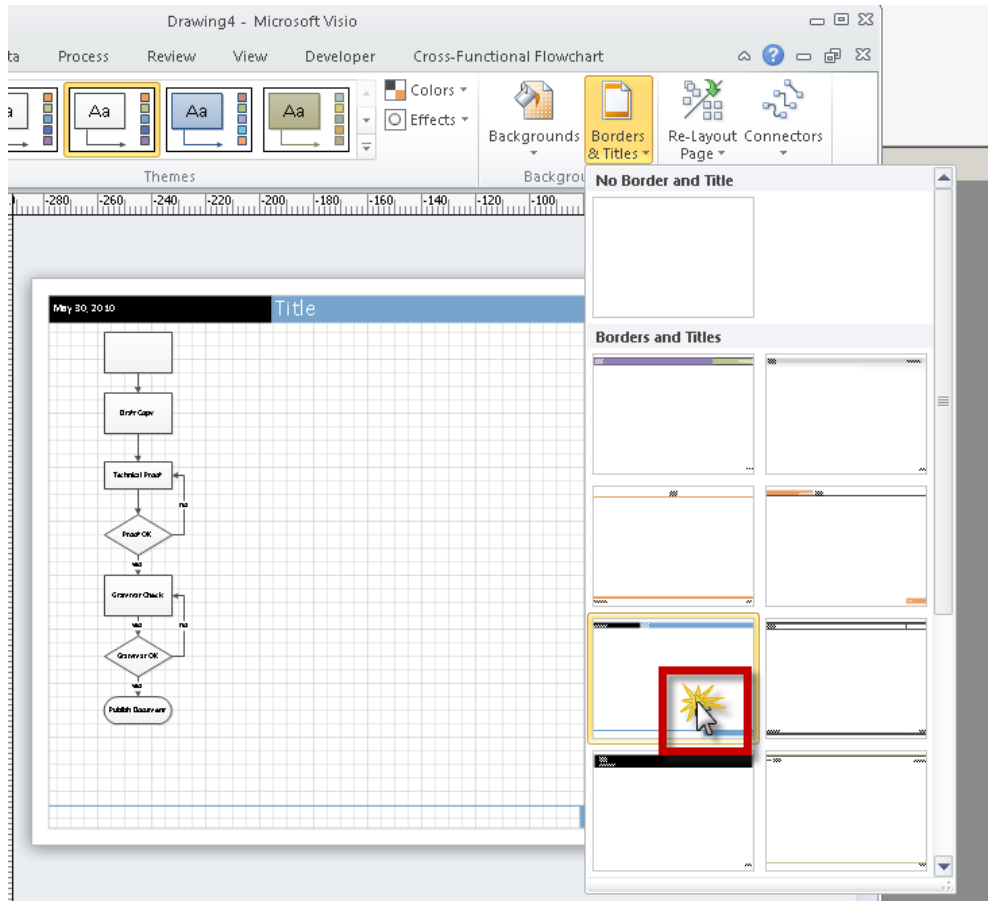


Notice on the above drawing two things have happened a background has been applied and in doing so it has created a new page called vbackground-1

If you don't like the background simply repeat the above process either selecting a new background or select none to remove this also removes the background page as long as it is not used on any other pages.

Borders and Title Stencil

- Select the design tab Click on **Borders and Titles** Click on the option you require. As you see below you can see that a date and title has been added to the drawing.



Edit the Title

- Go to the background page, select the title then click on the object you wish to change the text for and overtype with your text.
- Remember to switch back to your drawing page.



"I studied English for 16 years but...
...I finally learned to speak it in just six lessons"

Jane, Chinese architect

ENGLISH OUT THERE

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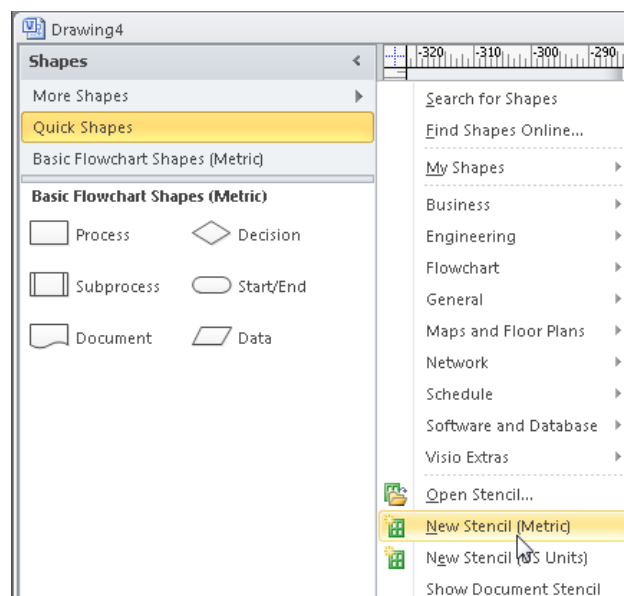
Managing Stencils

My Stencil (formerly Favourites)

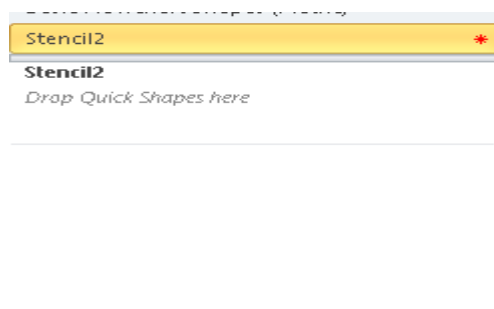
You now store custom shapes and shapes from other stencils in custom stencils. These custom stencils are stored in My Shapes folder, in My Documents.

Create a new stencil

Select More shapes from the shapes pane from the sub menu select new stencil, select your unit of measurement



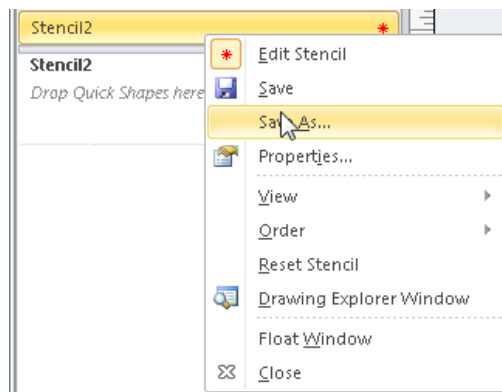
You are now presented with a new stencil in the stencil pane window



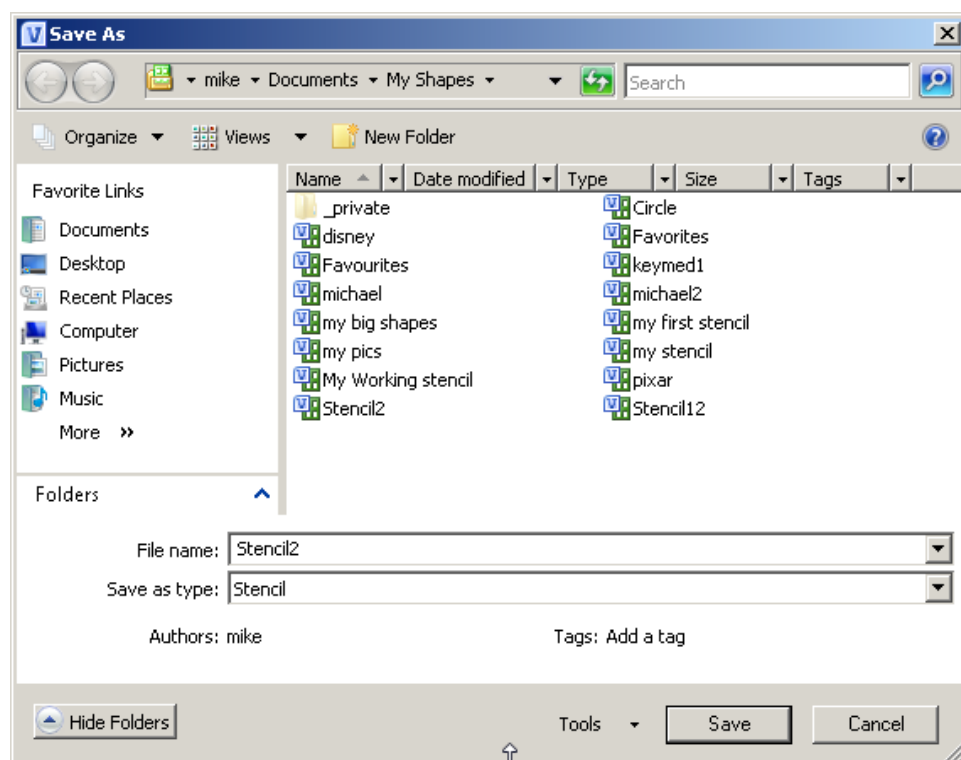
The red asterisk indicates the stencil is in edit mode

Naming a stencil and saving a stencil

- Right click on the title line on the stencil and select save.

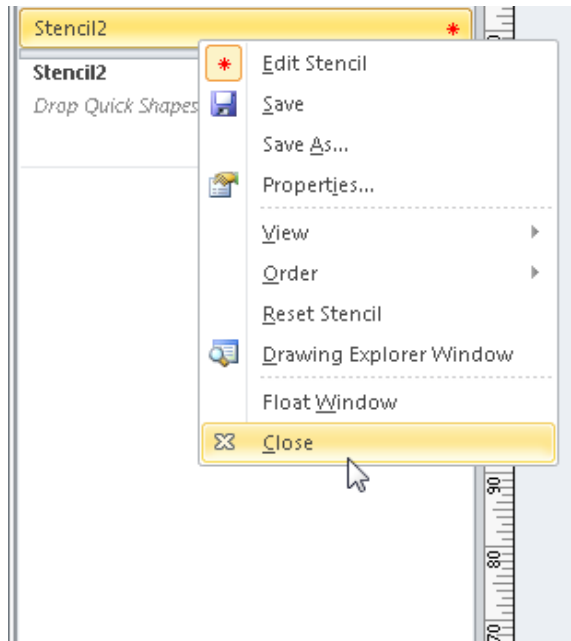


- The name you give here is the name for the stencil



Close Stencil

- To close the stencils right click on the stencil name and select close from the menu.



WHILE YOU WERE SLEEPING...

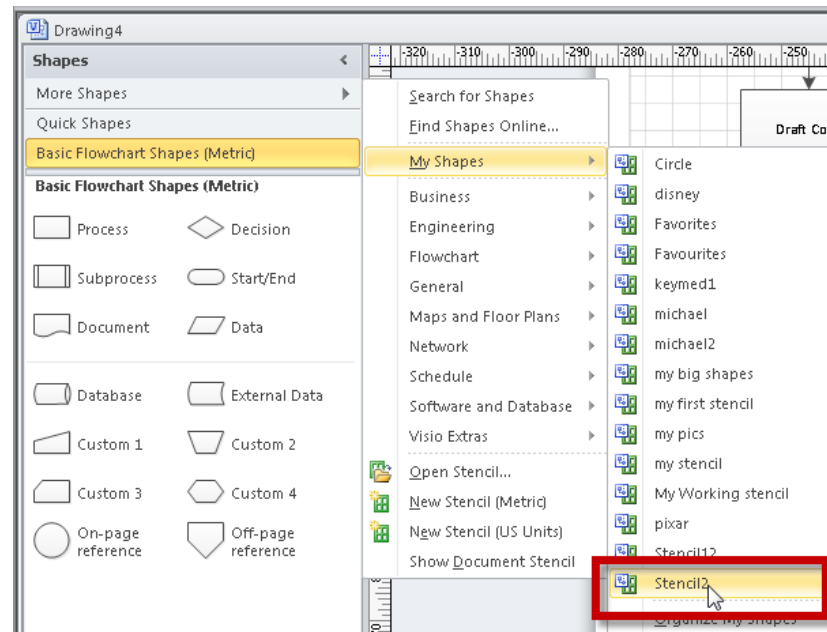
www.fuqua.duke.edu/whileyouweresleeping

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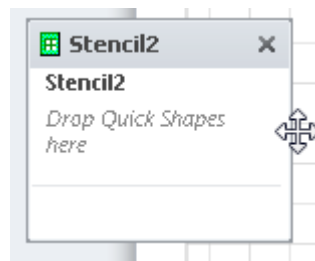
Re-open stencil

Select more shapes, my shapes then select your stencil.



Float Stencil

- Drag from the stencil name into the main drawing window

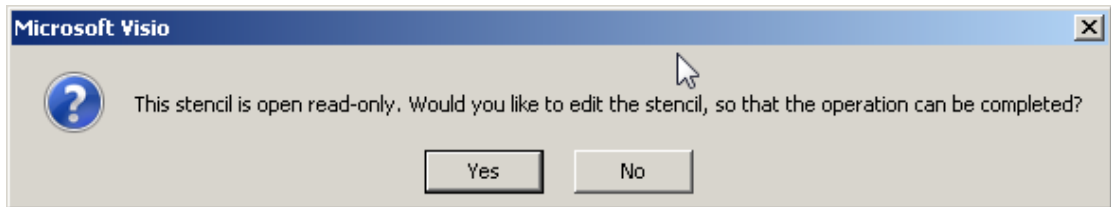


Re Dock Stencil

- To dock the stencils again drag the stencil back to the stencil pane.

Add shapes to a stencil

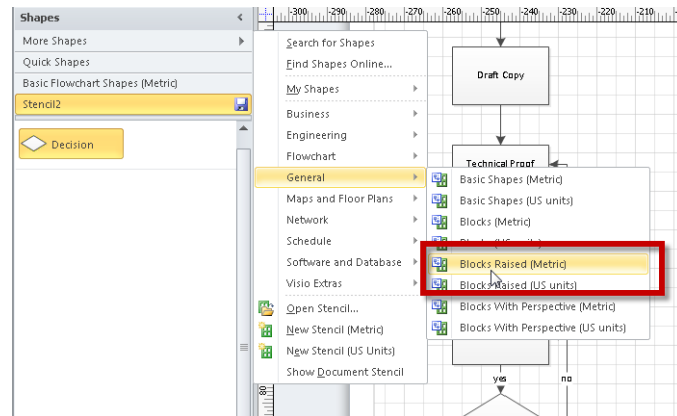
- Open your stencil then drag it to the drawing screen.
- Locate the shape you want and drag it to your stencil
- You will see the following message **click yes** to continue



- Drag from any stencil the shapes you want to use onto your stencil.

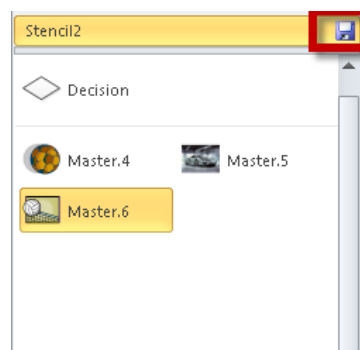
Accessing more stencil sets

Whilst stencils open according to what template you choose you can open any stencil set installed into Visio or any .VSS file you are sent,



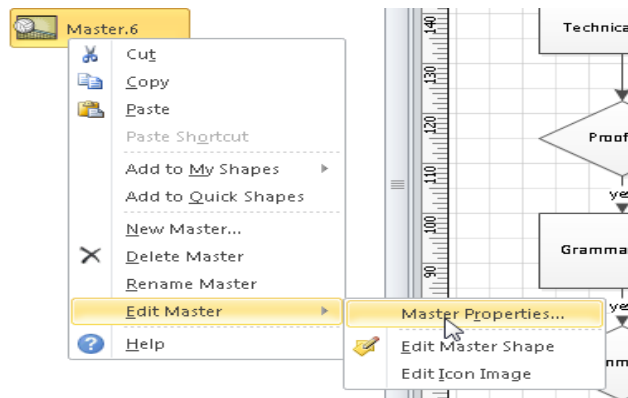
Add clipart and pictures to stencil

To add clipart or pictures to your stencil first add them to your drawing, once they have been added drag them to your stencil. Remember to click the save button to update your stencil.

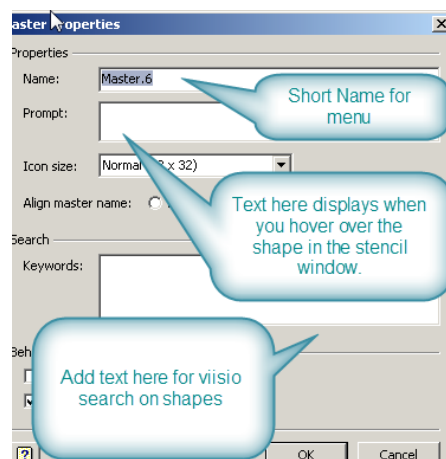


Name Your Objects in the stencil

- Right click on the object, select edit master, master properties



This dialogue box below opens



Enter a short name to display on the stencil menu.

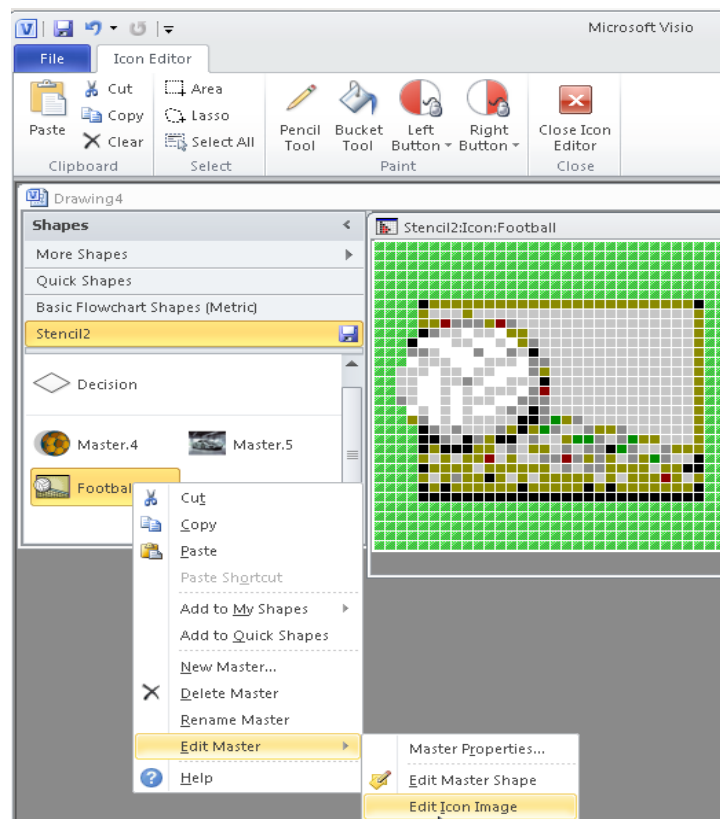
Text typed here is the extended version and will appear when you hover over the shape or show text only description

Text typed here becomes keywords for Visio shape search.

This shows you an edited shape with name and Prompt



Change or edit icon



Right click the icon of the shape you want to change to open the Icon Editor.

Make changes and close icon editor to update

Add text to stencil

Type is some text onto the drawing or copy some text from word and paste it onto the drawing size the text box and format the text. Now drag the text Box onto the stencil.

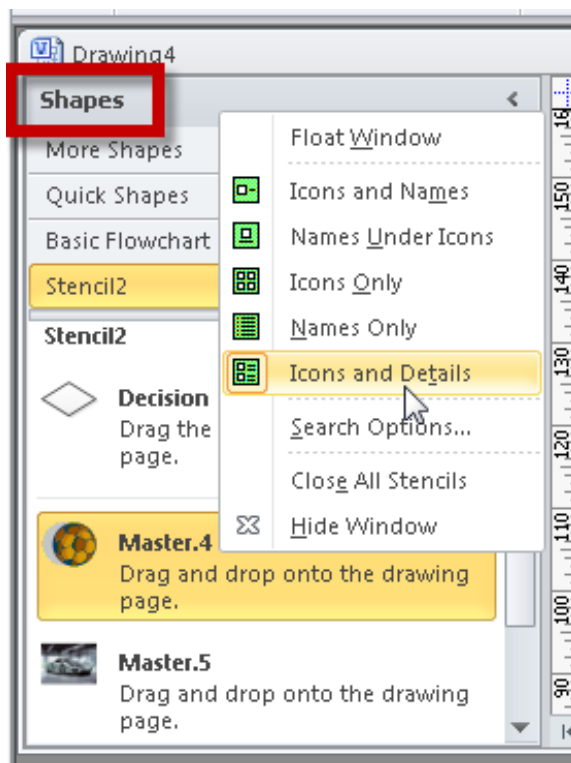
Add custom shapes to stencil



NOTE: any changes you make to a shape colour size border thickness is classified as a custom shape, simply drag your shape into you custom stencil to save it

Menu Layouts

- Right click on shapes and select the view that you want.



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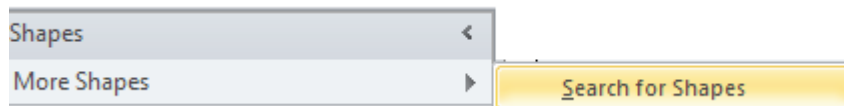


Se informasjon om sommerjobber på
www.bp.no

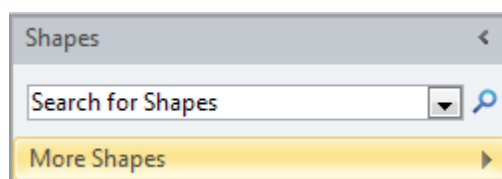


Searching for a Shape on a Stencil

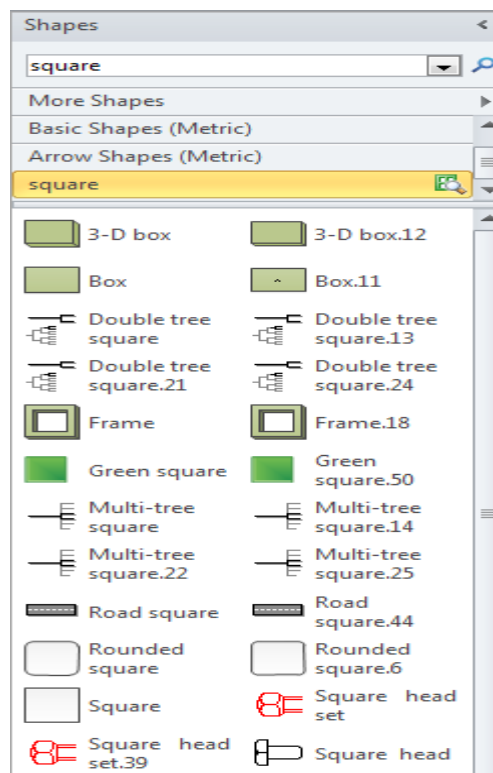
If you are unsure which stencil contains the shape you require, then a search can be performed from the **More Shapes** Menu.



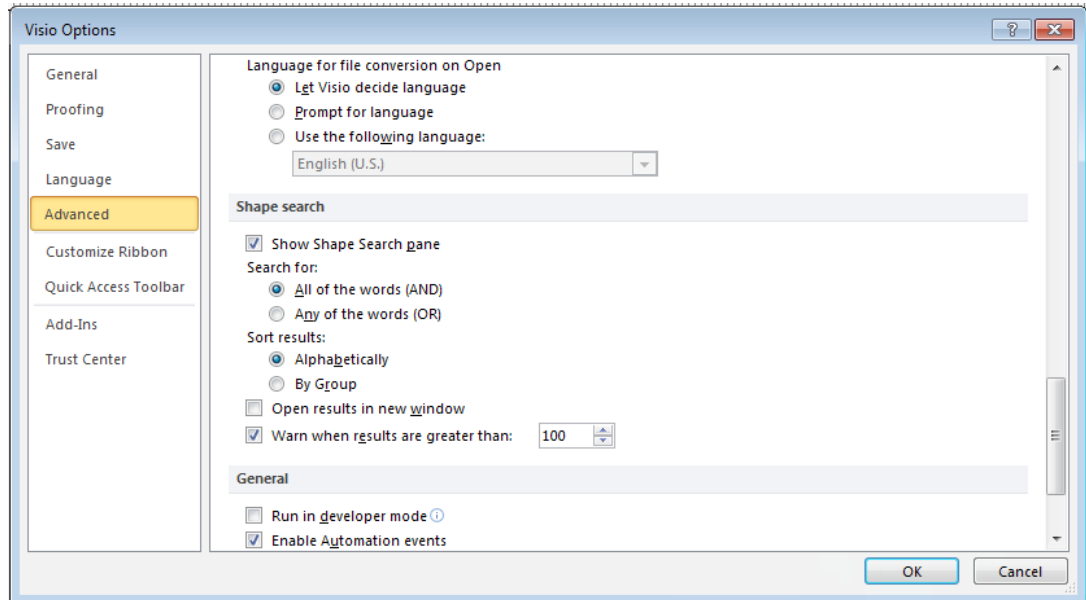
- Select the **Search for Shapes** option from the **More shapes** Menu.



- Enter the word or phrase in the **Search for Shapes** box and click the arrow to start the search.
- The results will appear in a temporary stencil:

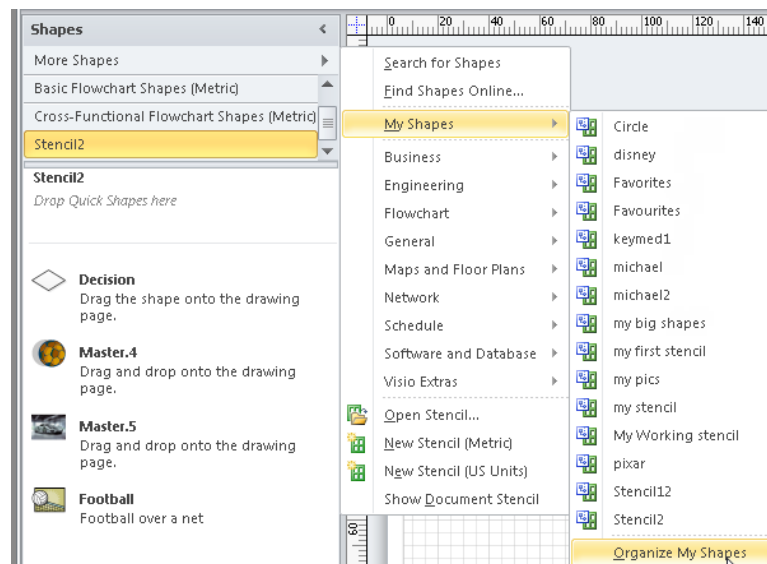


- When a new search is performed, these results will be replaced by those of the new search.
- The results stencil can be closed at any time in the normal way.
- You can make some adjustment to the Search setting by going to the **File** menu, **Options** and scrolling to the **Shape Search** part in the **Visio Options** window.

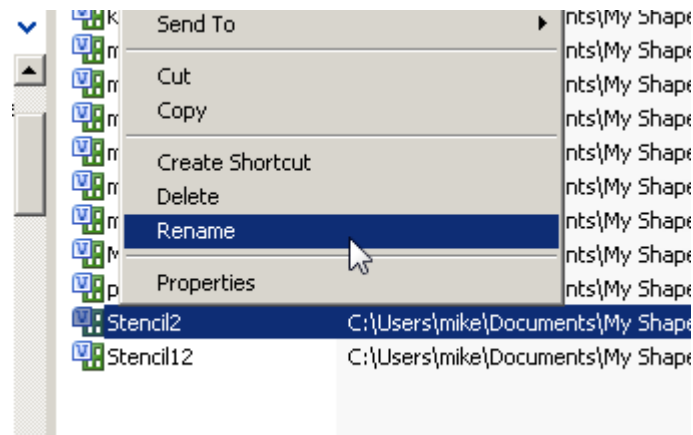


Rename a stencil

- Open more shapes, my shapes organise my shapes.



This opens the document explorer window where the stencils are stored, select the appropriate stencil then right click to open the sub menu, from the sub menu click on rename and enter your new name.



NOTE: you can not rename stencils if you have them open in Visio



Working with Shapes

Shape is the general term for the objects you will find on a stencil and objects created using the drawing tools. These include geometric shapes such as rectangles, triangles and ellipses as well as more specialised shapes.

Creating a shape

- Locate the required shape on the stencil.
- Click and hold down the mouse button on the shape.
- Drag it over to your page.
- Let the mouse button go when you have positioned the shape in the preferred location.
- The shape will appear with 8 square (**Resize**) handles around the outside and 1 round (**Rotate**) handle at the top.
- These **Selection Handles** tell us the shape is active and able to be edited.

Selecting shapes

Shapes must be selected before any action such as copying, deleting and formatting can go ahead.

To Select a Single Shape

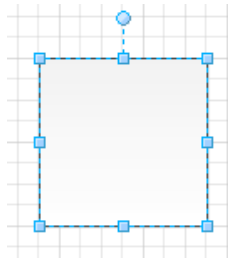
- Click on the shape with the left mouse button.
- The selection handles described above will appear.

To Deselect A Shape

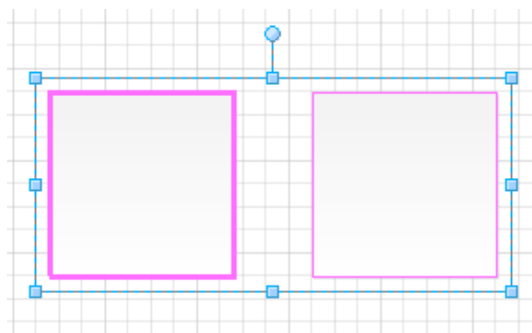
- Click on any blank area of the page.

To Select Multiple Shapes Using the Keyboard

- Select the first shape.



- Hold down the **SHIFT** key on the keyboard and select the second shape.
- The selection handles now form a rectangle that surrounds both of the shapes:

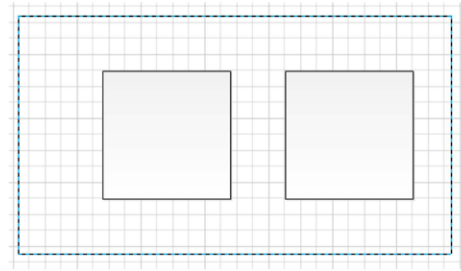
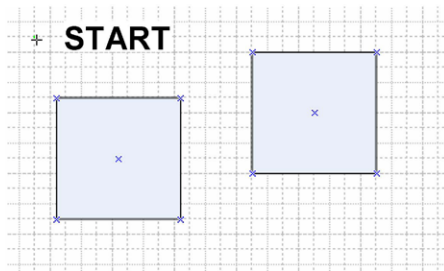


- Further shapes can also be selected using the same method.
- While still holding down the **SHIFT** a selected shape can be deselected by clicking it for a second time.

To Select Shapes Using the Area Select Tool

This method involves dragging a selection box around the shape or shapes to be selected.

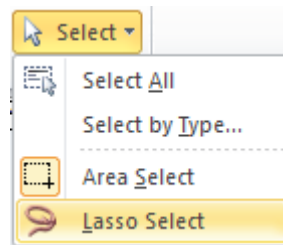
- Starting above and to the left of your shapes, click and drag your mouse towards the bottom right of your shapes:



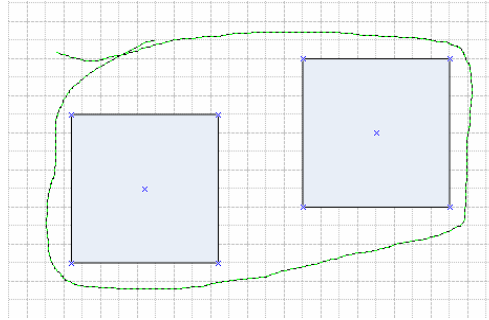
- Make sure all parts of the required shapes are within the selection box.
- Release the mouse button when you are happy with your box; if not, click away so nothing is selected and try to drag the box again.

To Select Shapes Using the Lasso Select Tool

This method involves drawing a selection 'lasso' of any shape around the shape or shapes to be selected.



- From the **Editing** section of the **Ribbon** choose **Select** and click on the **Lasso Select** button.

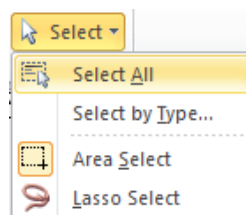


- Click and drag with the mouse to start drawing the lasso.
- Ensure the shapes to be selected are fully within the lasso.
- If possible overlap the start and end points of the lasso (although this is not always essential).

Both the Area Select and the Lasso Select methods can be used in conjunction with the Multiple Select method in order to easily select multiple shapes which are positioned in different parts of the drawing page.

To Select All Shapes on a Page

- In the **Select** button, choose **Select All**.

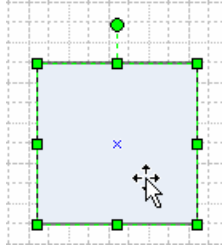


OR


- Press **CTRL+A**.

Moving Shapes

- Point your mouse at the shape to be moved.



- Click and hold down the mouse button.
- Drag the shape to the new location.
- Release the mouse button.

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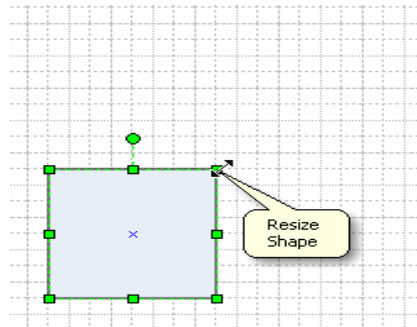
Deleting Shapes

- Select the shape to be deleted.
- Press the **Delete** key.

Resizing Shapes

Resizing a Shape with the Mouse

- Select the shape to be resized.
- Move the mouse pointer to the required **Resize** handle:

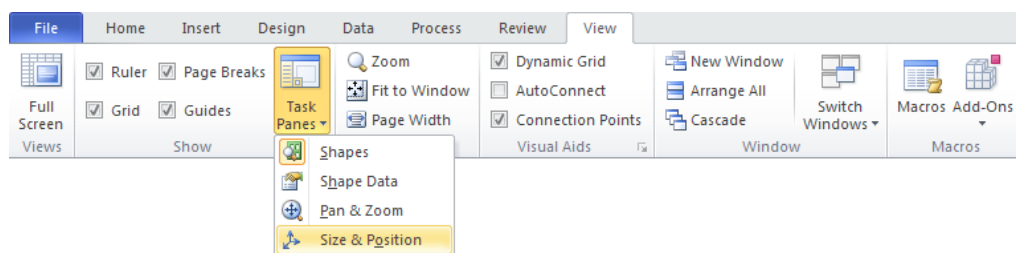


- Drag the handle until the shape is at the required size.
- Release the mouse button.

Click and drag on any corner when resizing to maintain the shape's height-to-width proportions.

Resizing a Shape with the Size & Position Window

- Select the shape to be resized.
- From the **View** Ribbon, **Show** section, **Task Panes** select **Size & Position**.




- the following window will appear in the bottom left of the screen:

Size & Position - Square	
X	88 mm
Y	235 mm
Width	40 mm
Height	40 mm
Angle	0 deg
Pin Pos	Center-Center

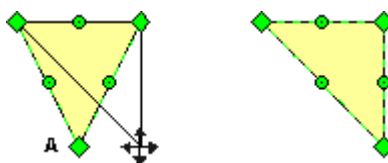
- Increase/decrease the **Width** and **Height** values to change the size of the shape.
- The **X** and **Y** values refer to the position of the shape on the drawing page.

Revising Existing Shapes

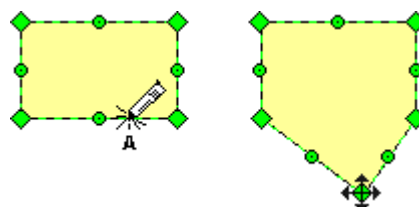
To revise the geometry of almost any shape, select it with the **Pencil** tool , and then drag, add, or delete vertices. To change curves, drag a control point or a point's eccentricity handles.



TIP You can select multiple vertices and move them as unit to easily preserve their relative position to each other.

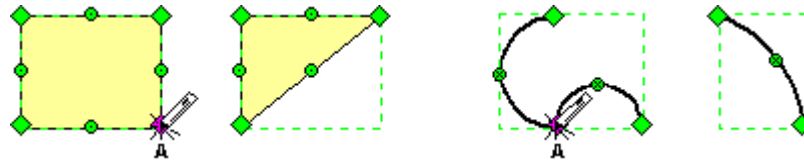


One way to reshape a shape is to drag a vertex (A) with the **Pencil** tool.



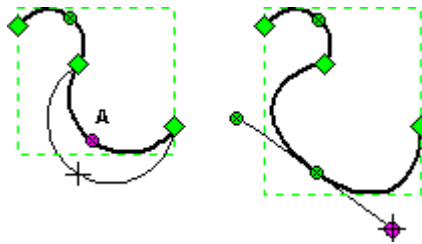
To add a segment, point to where you want to add the segment, hold down the CTRL key, and click with the **Pencil** tool (A). Then you can drag the new vertex with the **Pencil** tool to the position you want.

If you want fewer segments in a shape, delete the segments you don't want.



To delete a segment, select a vertex with the **Pencil** tool (A), and then press DELETE. The segment that the vertex is associated with is deleted. The remaining segments are reshaped accordingly.

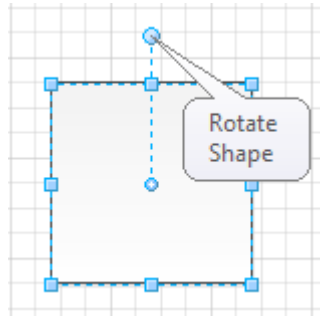
How the Visio engine redraws the shape when you delete a vertex depends on whether the vertex is at the beginning or end of an open shape, the order that the segments were created in, and whether the segment that follows the vertex you delete is a line or arc. After you delete segments, you might need to adjust the shape by dragging vertices and control points until the shape appears the way you want.



To change the curvature of an arc or freeform curve, drag a control point (A) until the segment appears the way you want

Rotating Shapes

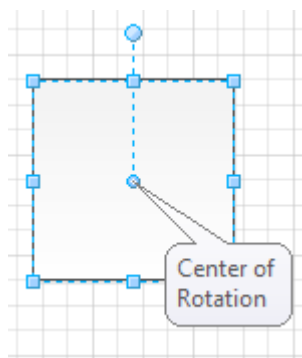
- Select the shape.
- Use the **Rotate** handle to drag the shape round as far as necessary:



Changing the Centre of Rotation

The centre of rotation is normally positioned in the centre of the shape and defines the point at which the shape will rotate. The centre of rotation can be moved at any time.

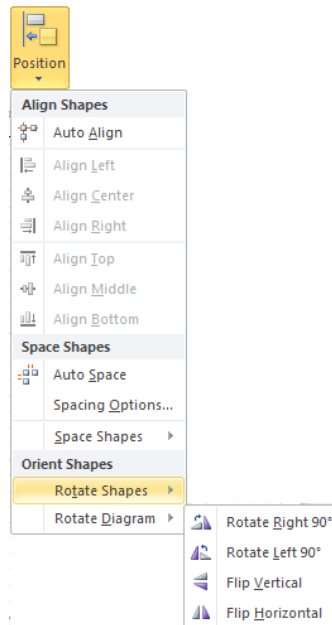
- Select the shape and move the mouse pointer over the Rotate handle (see above).
- The **Centre of Rotation** will appear in the centre of the shape:



- Move the mouse over the centre of rotation and click & drag it to another position.

Flipping Shapes

- Select the shape to be flipped.
- Select **Flip Horizontal** or **Flip Vertical** from **Rotate Shapes** menu under the **Position** button on the **Home** Ribbon:

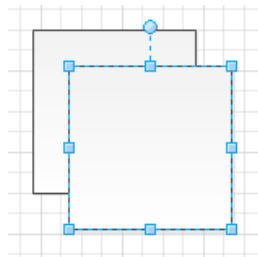
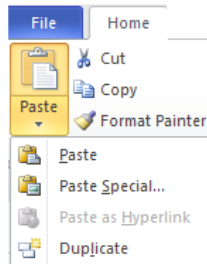


A large advertisement for Statnett. On the left, there is a large spool of white cable on a wooden stand, with a yellow power meter connected to it. On the right, there is a white card with text in Norwegian. The text reads: 'Strømmen produseres ofte langt fra der den skal brukes. Statnett sitt oppdrag er å gjøre strømmen tilgjengelig, uansett hvor i dette langstrakte landet du bor. Det er vi som bygger og drifter "riksveiene" i norsk strømforsyning. Gjennom vårt landsdekkende nett sørger vi for en sikker fordeling av strøm mellom nord, sør, øst og vest. Vi binder Norge sammen Statnett Vårt felles kraftnett'. At the bottom right, there is a red button with the text 'Er du student? Les mer her' and the URL 'www.statnett.no/no/Jobb-og-karriere/Studenten'. A hand cursor is pointing at the button.

Duplicating/Copying Shapes

Duplicating a Shape

- Select the shape to be duplicated.
- Select **Duplicate** from the **Paste** Button on the **Home** Ribbon, and a copy of the shape will appear directly beside the original:



- **CTRL+D** will do the same.

OR

- Hold down the **CTRL** key and move the shape to its new position, a copy is created.

Copying a Shape between Pages

- Select the shape to be copied.
- Select **Copy** from the **Home** Ribbon.
- Move to the page where the copy is required.
- Select **Paste** from the **Edit** menu.

Moving a Shape between Pages

- Select the shape to be moved.
- Select **Cut** from the **Home** Ribbon.
- Go to the page where the shape is required.
- Select **Paste** from the **Edit** menu.



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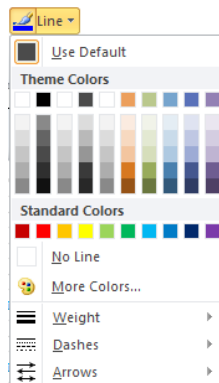


Changing the attributes of a Shape

Attributes, such as line and fill colour, can be changed to alter the appearance of a shape.

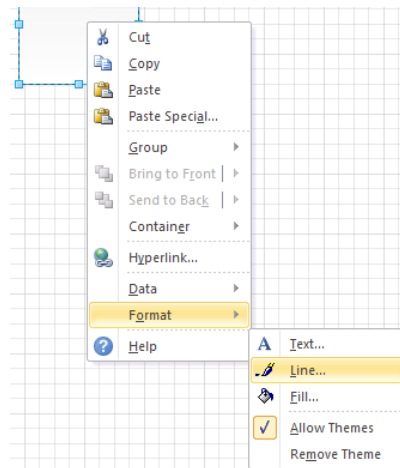
To Change Line (Border) Attributes

- Select the shape for which the line attributes are to be changed.
- Select **Line** from the **Shape** section on the **Home** Ribbon – the **Line** options palette will appear:

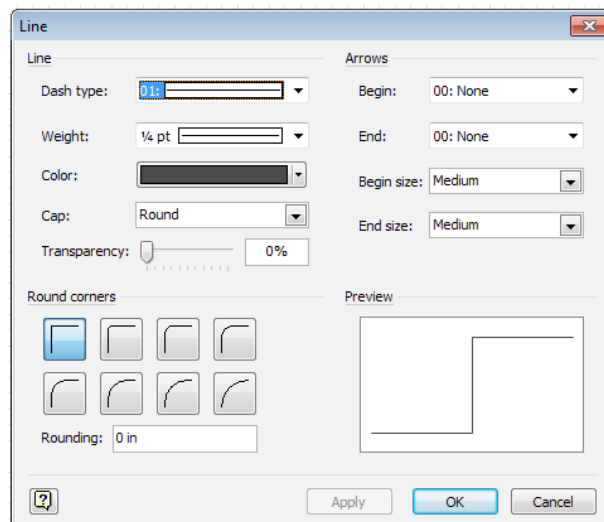


OR

- Right Click on the shape and select **Format, Line**.



- The Format Line window will appear:



Line

Dash Type

Changes the style of the line, e.g. dotted, dashed etc. Changes the thickness of a line or a line around a shape. Changes the colour of the line or the line colour of a shape.

Weight

Colour

Cap

Makes the ends of a line either round or square. This may not be visible if the line is fairly thin.

Transparency

This sets the transparency of the line, from 0 to 100.

Line Ends

Begin/End

Changes the style of the beginning/end of the line, e.g. adds arrowhead.

Begin/End Size

Changes the size of the beginning/end of line attachments.

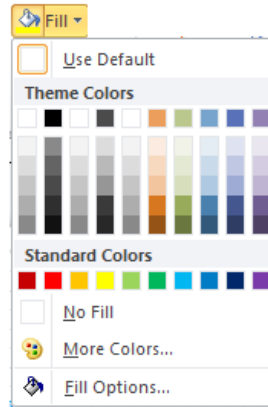
Round Corners

Gives you the option to smooth the corners of the line or shape.

- Choose **OK** to finish.

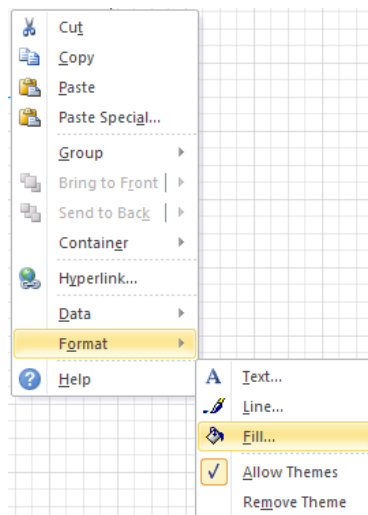
To Change Fill Attributes

- Select the shape for which the fill attributes are to be changed.
- Select **Fill** from the **Shape** section on the **Home** Ribbon – the **Line** options palette will appear:

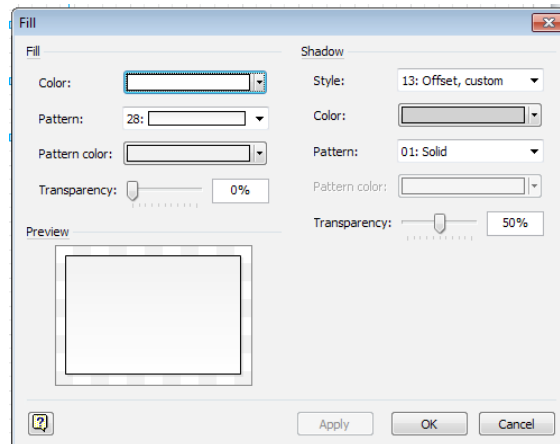


OR

- Right click on the shape, **Format, Fill**.



- The **Fill** dialog box will appear:

**Fill****Colour**

Allows the colour of the shape to be chosen.

Pattern

Allows a pattern to be applied to the fill of the shape.

Pattern Colour

Allows the colour of the pattern to be chosen.

Transparency

Sets the Transparency of the fill, from 0 to 100.

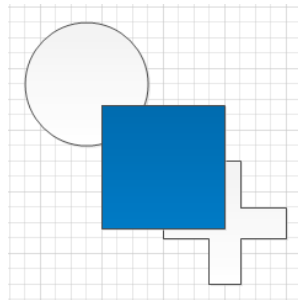
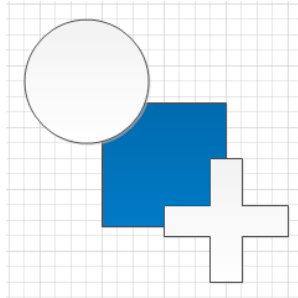
Shadow

Shadow settings can be set from this section.

- Choose **OK** to finish.

Stacking Shapes

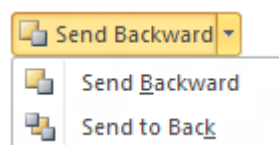
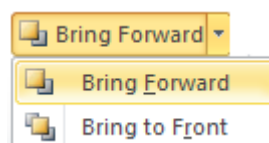
When you are working with shapes, you will find that you sometimes need to stack them to get the effect you want. When you stack shapes on top of each other, they will overlap. Visio has commands to move shapes up or down in a stack.



Bringing Shapes to the Front/Back of a Stack

- The **Bring to Front** and **Send to Back** commands move a shape to the top or bottom of the stack.
- Select the shape you want to move.

From the **Home** Ribbon, **Arrange** choose **Bring Forward** or **Send Backward**. The following sub-menus will appear:



- Select **Bring to Front** or **Send to Back** to move the shape all the way to the front or all the way to the back of the stack.
- Select **Bring Forward** or **Send Backward** to move the shape up or down in the stack one level at the time.



Skatteetaten



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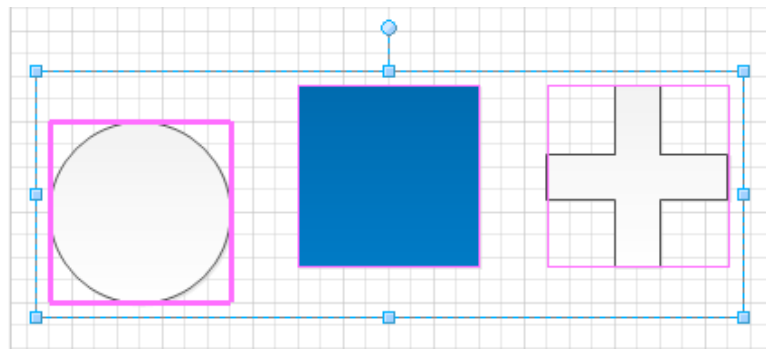
For mer informasjon se skatteetaten.no/jobb



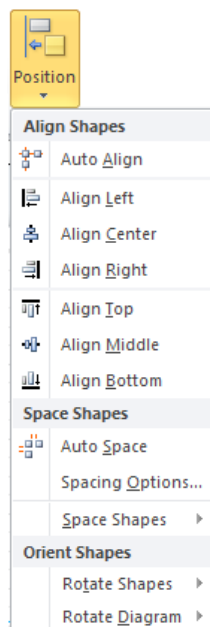
Aligning shapes

If you have created a number of shapes, you can align the entire group on their left/right borders, their top/bottom border or their centres. You do not have to select and move each shape individually.

- Select the first shape, the handles will be green. This will be the **master** shape.
- Select the other shapes using the **SHIFT** key (or the **Area Select/Lasso** option from the **Select** button).
- The blue handles will surround all of the selected shapes. The first shape (the master) will now have a thick pink border, while the subsequent shapes selected will have a thinner pink border:



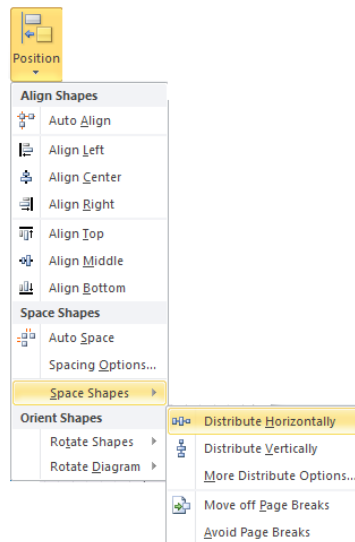
- Choose **Position** from the **Arrange** section on the **Home** Ribbon and select alignment option.



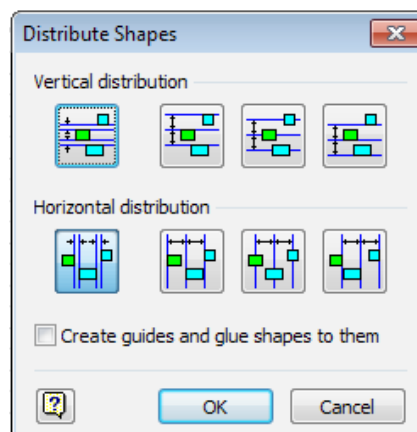
Distributing Shapes

If you have created a number of shapes, you can distribute space equally between them.

- Select the shapes you want to distribute space between.
- Select the **Position** Button, **Space shapes**, and select the required distribution option.



- For more options select the **Position** Button, **Space shapes**, and **More Distribute Options**. The **Distribute Shapes** dialog opens:

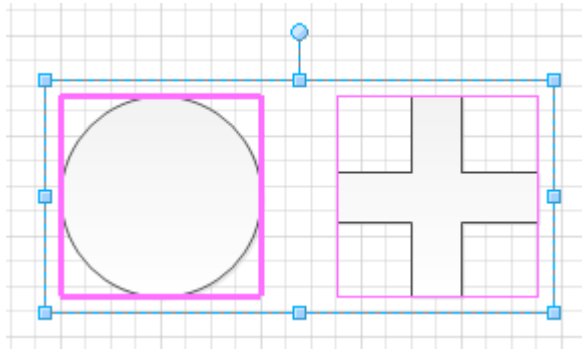


- Select the type of distribution you want.
- Click on **OK**.

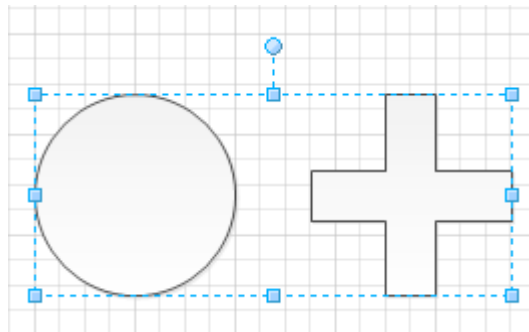
Grouping Shapes

When you have selected two or more shapes, you can create a group. Once you have a group, any attribute you choose such as shadow or line colour, is assigned to all the individual shapes within a group – as long as it applies (e.g. you cannot have a line with a shaded fill). The grouped shapes all move and rotate as a group.

Two Shapes Selected – NOT Grouped

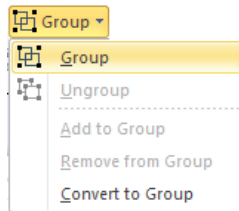


Two Shapes Grouped



To Group Selected Shapes

- Select the shapes to be grouped.
- Choose **Group** button from the Home Ribbon, **Arrange** section and then **Group**

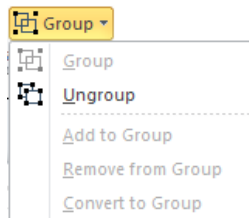


OR

- Press **CTRL+G**.

To Ungroup Shapes

- Select the group by clicking on one of its shapes.
- Choose **Group** button from the Home Ribbon, **Arrange** section and then **Ungroup**

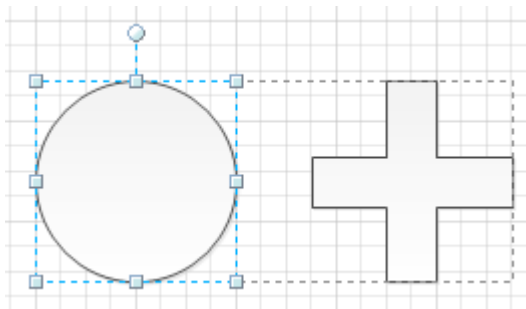


OR

- Press **CTRL+SHIFT+U**.

Selecting a Shape within a Group

- Select the group.
- Select the shape you want to alter.



- Format the shape.
- Or click & drag the shape to move it within the boundaries of the group.
- Click away from the shape to deselect the group when you have finished.



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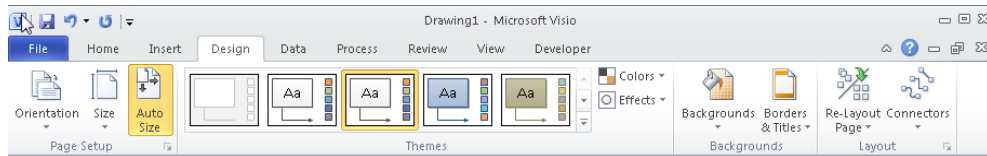
Se ledige stillinger her


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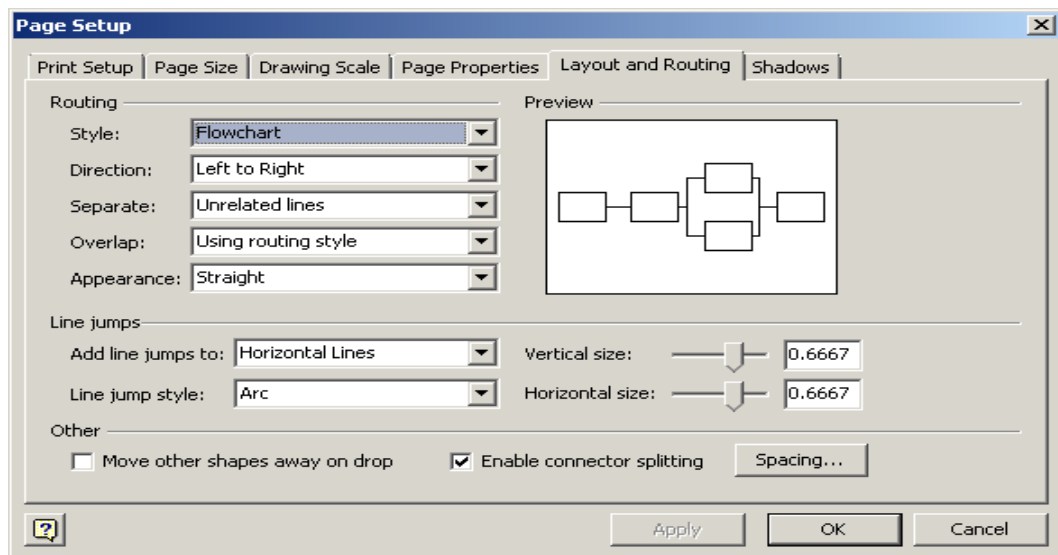


Adjusting Shape Layout

- Select the design tab

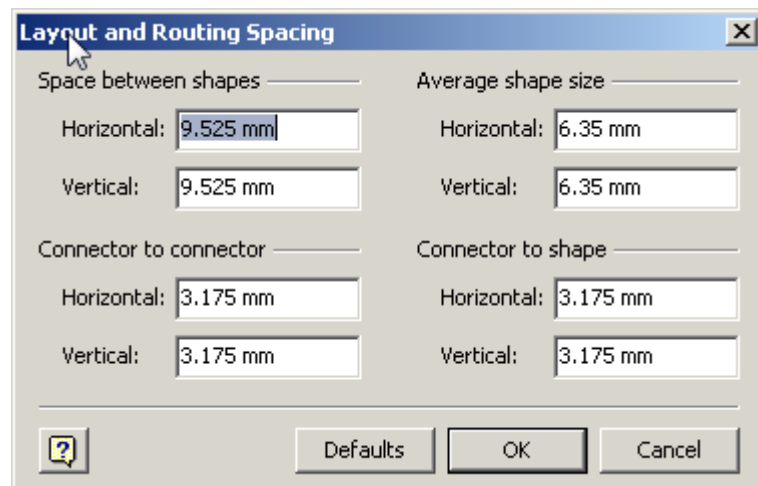


Click  on the layout group to open the dialogue box Shown below



Experiment changing the option to see the impact that they make

Click  the spacing button to open advanced spacing options.



Experiment changing the options to see the impact that they make

HELT GRATIS!

S for Skikk & Bank

En bok om ting som er greit å vite når du har flyttet hjemmefra.

dnb.no

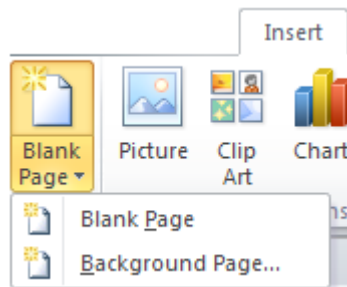
DNB

Bank fra A til Å

Managing Pages

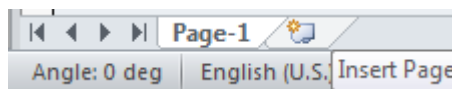
Creating a new page

- A new page can be added after the page that is currently displayed.
- Select **Blank Page** from the **Insert** ribbon.



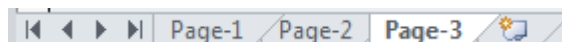
OR

Click on the **Insert Page Tab** at the bottom of the window.



Moving Between Pages

- Page Tabs appear at the bottom of the screen:



- Click onto a Tab to switch to that page.

OR

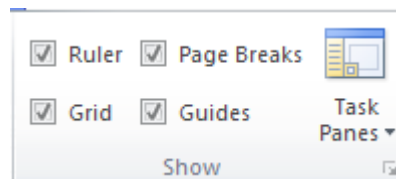
- Pressing **CTRL+ Page Up/Down** will move you forward or backward one page at a time through the file.

Ruler, Grid and Guides

The page has a visible Grid of squares designed to help with the positioning of shapes. The size of the squares on this grid will change as you zoom in and out of the page.

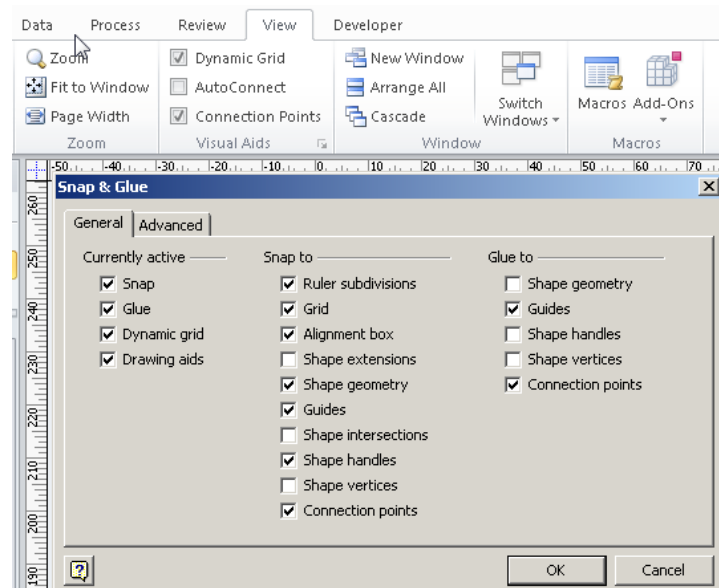
There are also vertical and horizontal Rulers found on the left and top of the drawing page.

Both of these features can be adjusted from the **Show** section of the **View** Ribbon.



Snap & Glue

As one shape is moved close to another on a drawing page, the two will tend to line up exactly without a gap between them. This is a feature called Snap. This is typically what you would want to happen to help with the overall appearance of your drawing. The feature can be deactivated by choosing **extended options to open dialogue box as shown**.



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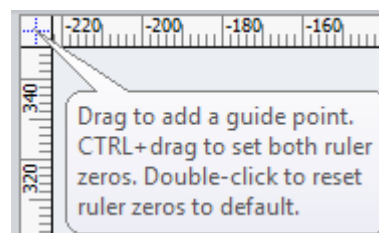
zalando



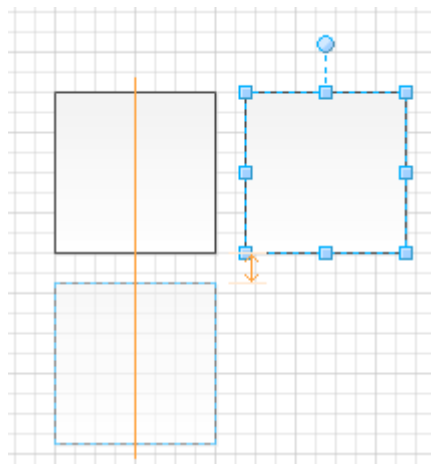
Guides

Guides are another method designed to help with the positioning of shapes. Both horizontal and vertical guides can be introduced to the drawing page.

- Move the mouse pointer to one of the rulers (the top ruler for a horizontal guide, the left ruler for a vertical).
- Click & drag onto the drawing page. The guide will be created wherever the mouse is released.
- Guides can be moved, copied and deleted just like normal shapes.
- **Guide Points** can be added by dragging them to the page from the Upper left hand corner of the ruler.



- Visio also displays the drawing guides while you are adding shapes onto the drawing.



Use drawing explorer window

The **Drawing Explorer** window contains icons that represent everything in your diagram. Related items are grouped together in folders. For example, there is a folder for all the foreground pages. Inside this folder is a icon for each page, identified by the page name. When you select a page icon, that page opens in the diagram area.

Under each page are subfolders that contain icons for all the shapes and layers on that page. If a shape is composed of a group of smaller shapes, all of those smaller shapes are represented in a subfolder under the main shape icon. You can select any shape on a diagram page, or any subshape in a group, by selecting it in the **Drawing Explorer** window.

To view the **Drawing Explorer** window, you must have the **Developer** tab visible. By default, this tab is hidden.

View the Developer tab

- Click the **File** tab.
- Under **Visio**, click **Options**.
- Click **Advanced**, and scroll down to the **General** section.
- Select **Run in developer mode**.

Use the Drawing Explorer window

- On the **Developer** tab, in the **Show/Hide** group, select **Drawing Explorer**.
- Do one or more of the following:
 - To open or close a folder, double-click it.
 - To change the name of an item, press F2, type over the highlighted text, and then press ENTER.
 - To immediately undo a name change, press ESC.
- To select a shape in the diagram window, in the **Drawing Explorer** window, click the plus sign next to the **Foreground Pages** or **Background Pages** folder, and then click the shape you want.

Set drawing scale

What Is the Purpose of Drawing Scale?

Whenever you need to re-create the exact spatial relationships--as well as relate objects to one another--of very small or very large objects in the space of a drawing page, you must set a drawing scale. When a drawing is made for real-world objects that are larger than paper size, you must draw to scale. For example, 1 inch on the drawing page of an office layout might represent 1 foot of the actual office.

How Do I Set Drawing Scale?

When you start a drawing by opening a solution, the drawing scale and measurement units are already set for you. Some solutions, however (such as the Basic Flowchart solution), are unscaled because you use them to create abstract drawings that do not represent actual objects in the real world.

You can set the drawing scale in any drawing. If you want to work with a different drawing scale, you can change the setting.

To set drawing scale

- On the **File** menu, click **Page Setup**, and then click the **Drawing Scale** tab.



NOTE: In a multiple-page drawing, each page can have a different scale. The rulers in each of these drawings reflect their different drawing scales.

What Issues Should I know about?

When you set a drawing scale, keep the following points in mind:

- Changing a page's drawing scale does not change any background pages assigned to that page; therefore, you must set their drawing scale separately if you want the foreground and background pages to match. This feature allows a single file to contain multiple drawing scales.
- Most masters are designed for drawings that have a scale of 1:1. An instance of a master is automatically adjusted if its drawing scale is more than eight times larger or smaller than the drawing scale of the page. If the scales differ less, the shape is not adjusted.
- If you change the drawing scale, the corresponding real-world size of an object does not change. Visio updates the drawing so that the object takes up more or less space on the page, depending on your change



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Drawing Scales Explained

Drawing scales are sometimes expressed as a ratio without measurement units. For example, the metric scale for an office layout might be expressed as 1:50, which is the same as 2 cm = 1 m if you measure distances in centimetres and meters.

The smaller the ratio, the larger the area you can represent:

With a scale such as 1:100 (metric units) or $1/8'' = 1'$ (US units), you can draw an entire floor on one page.

With a scale such as 1:10 (metric units) or $1'' = 1'$ (US units), you can focus in on one cubicle.

When you choose a drawing scale, Microsoft Office Visio sets the measurement units and page units automatically.

Measurement units represent sizes or distances in the real world. In an office layout with a drawing scale of 2 cm = 1 m (1:50), meters are the measurement unit. In a drawing scale of $1/4'' = 1'$, feet are the measurement unit.

Page units represent sizes or distances on the printed page. In an office layout with a drawing scale of 2 cm = 1 m (1:50), centimetres are the page unit. In a drawing scale of $1/4'' = 1'$, inches are the page unit.

Shapes are designed to work with the template they come with. Building plan shapes, for example, work best with scaled drawings, while flowchart shapes work best with unscaled (1:1) drawings.

When you drag a shape onto a drawing page, the shape resizes to match the drawing scale. If the scale of the shape is much larger or much smaller than the scale of the drawing page, the shape is not resized. Consider using another shape designed to work with a scaled drawing.

Choosing an Appropriate Drawing Scale

Any drawing that depicts physical objects that are too small or too large to be drawn easily, or are larger than the paper size, must be scaled to fit on the page. For example, in an architectural rendering of a house, 1/4 inch on the drawing page might represent 1 foot of the actual house. Schematic diagrams, such as flowcharts and organization charts, depict abstract objects; therefore, these types of drawings are unscaled.

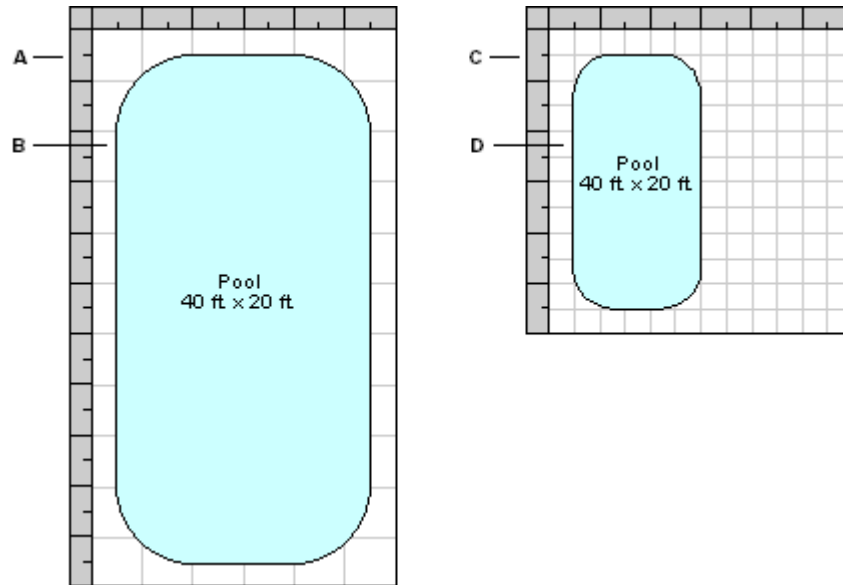
In Microsoft® Visio®, *drawing units* are sizes in the real world. In the previous example of a house, 1 foot is the drawing unit. *Page units* are sizes on the printed page—1/4 inch in the house example. The ratio of page units to drawing units is the *drawing scale*.

ShapeSheet® cells that describe object size or position that is, most cells are expressed in drawing units. Cells that represent measurements on the printed page, such as text format and indents, are shown in page units. If the drawing scale is changed, all ShapeSheet cells that are expressed in drawing units remain constant, but the shape is redrawn to the new scale.

Understanding Drawing Scale and Page Scale

To understand how drawing scale and page scale relate to each other, consider the swimming pool in the following figure. The pool is 40 feet long and 20 feet wide, drawn using a 1-point line, and labelled using 8-point type.

With a drawing scale of 1/4 inch = 1 foot (1:48), the picture of the pool is drawn 10 inches long by 5 inches wide. If you change the drawing scale to 1/8 inch = 1 foot (1:96), the pool is still 40 feet long and 20 feet wide; however, the picture of the pool is now only 5 inches by 2 1/2 inches. Regardless of the scale, the line size remains 1 point and the font size 8 points.



The pool is 40 ft by 20 ft in drawing units, regardless of the drawing scale.

- a) Drawing scale: 1/4 in. = 1 ft (1:48)
- b) In page units, the pool is 10 in. by 5 in. in this drawing scale.
- c) Drawing scale: 1/8 in. = 1 ft. (1:96)
- d) In page units, the pool is 5 in. by 2-1/2 in. in this drawing scale.

Factors to Consider in Choosing a Drawing Scale


To choose the appropriate drawing scale to include in a template, consider the following:

- The expected size of the drawing, in drawing units
- The paper size on which users will print their drawings
- The industry or drawing conventions that apply to the drawing type users create with your template, such as margins or title blocks

For example, a user can print a house plan on an 8 1/2-inch by 11-inch sheet of paper, in landscape orientation. If the drawing scale is 1/4 inch = 1 foot, the drawing page represents 34 feet by 44 feet (assuming no margins are set for the printed page). An area of 34 feet by 44 feet might not be large enough to accommodate the house and its landscape design. Instead, you might choose a smaller scale, such as 1/8 inch = 1 foot or 1 inch = 10 feet.



TIP Drawing units can represent measurements other than distance. You can use elapsed time rather than distance for a page scale by setting the drawing units to hours, days, weeks, months, and so on. For example, you can use elapsed weeks (abbreviated “ew” in ShapeSheet formulas) as the drawing units for the diagram of a project timeline. For a complete list of units, see the Microsoft Visio Developer Reference.



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Change the drawing scale

Display the page for which you want to change the drawing scale.

You can set a different drawing scale for each page in your drawing.

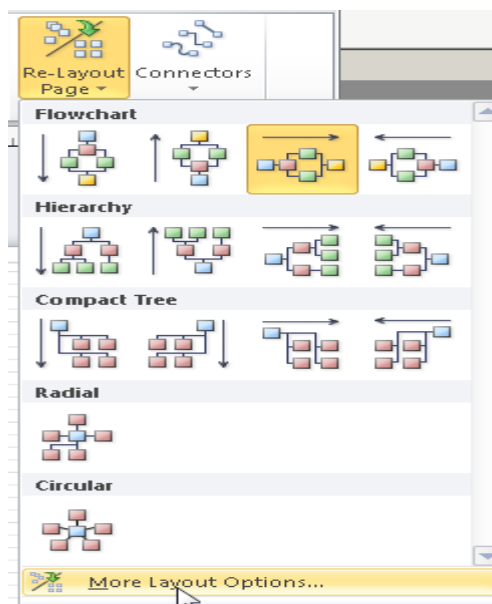
1. On the **File** menu, click **Page Setup**, and then click the **Drawing Scale** tab.
2. Click **Pre-defined scale**, and then click a pre-defined architectural, metric, or engineering scale; or click **Custom Scale** and type a custom scale.
3. To change the measurement units (such as feet or meters), click the **Page Properties** tab, and in the **Measurement units** list, click the units that you want.
4. Click **Apply** to save your changes and update the drawing page.

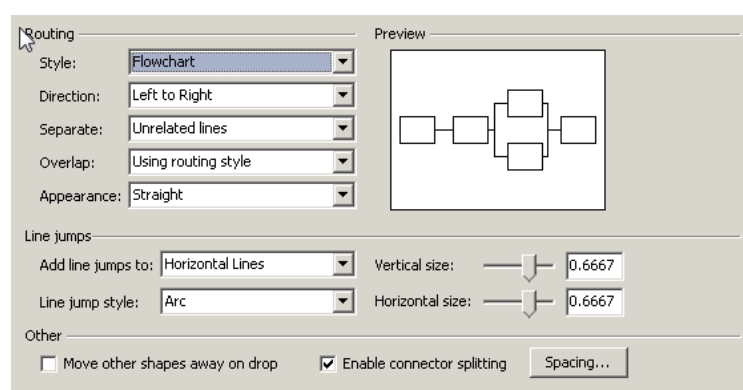
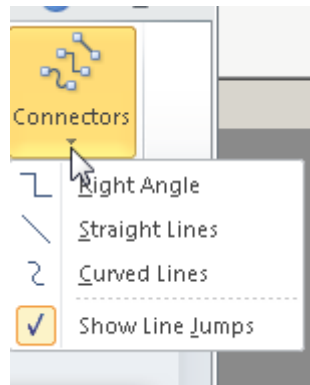
To give the **background pages** the same drawing scale, display the background page and follow steps 1–4.

The drawing shows the new settings. Shapes might appear larger or smaller, but their real-world size does not change. Rulers show the new measurement units.

Changing Layout and Line jump

Layouts and line jump can be accessed from either of these connectors, or Re-Layout Page Options then select More layout options.





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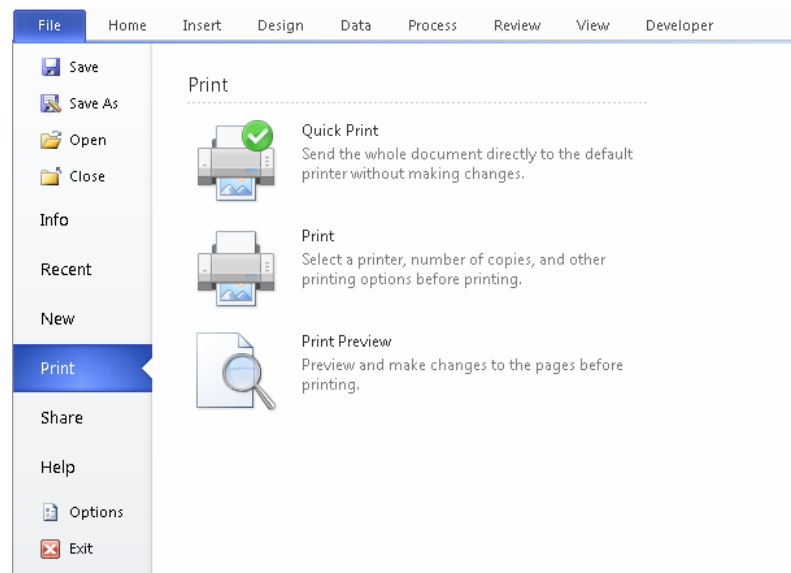


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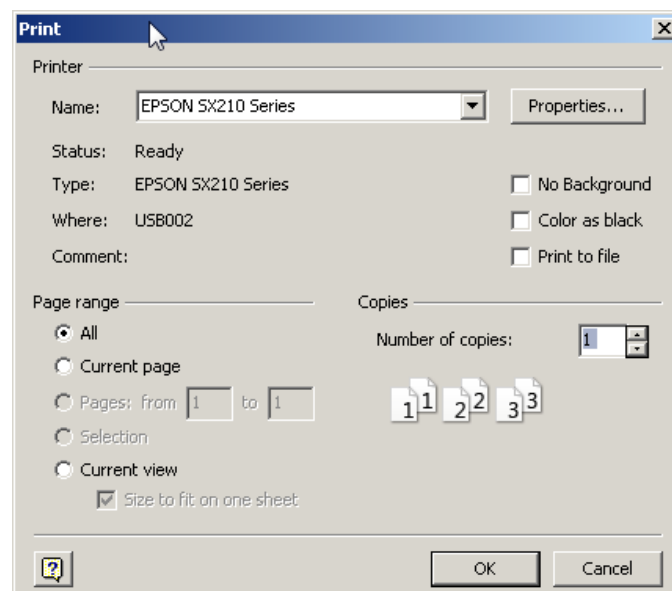
Print Drawings – Print preview

From the file menu you can access quick print, print and print preview.



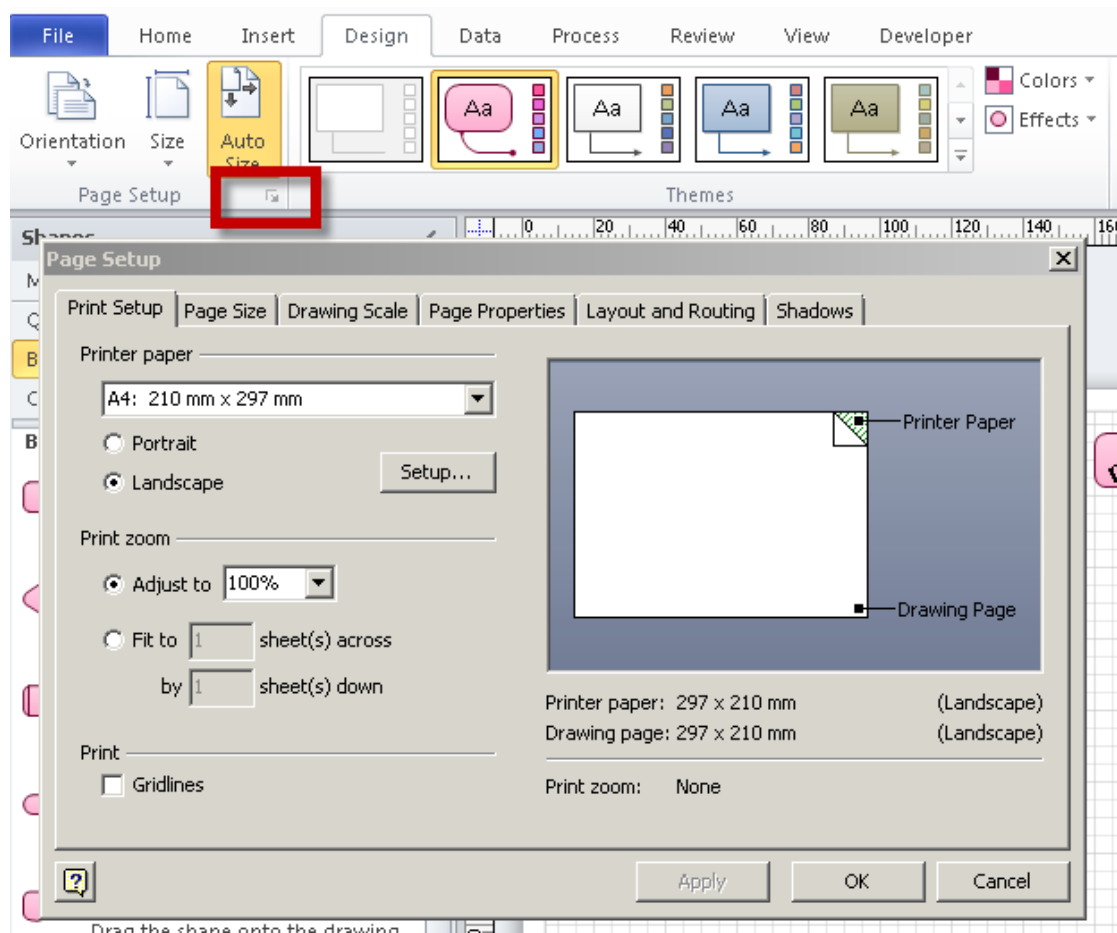
Print range Number of copies - Select a printer

Selecting the print option opens the print dialogue box you can also select the printer from here.



Paper size orientation

Open the advanced option by clicking the expanded options on page set up.

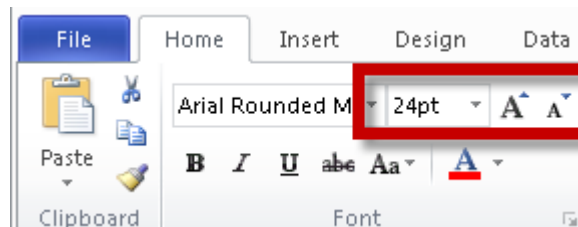


Formatting Text

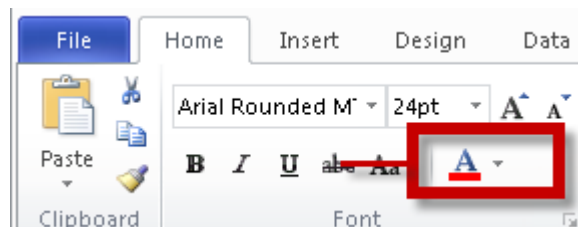
Change font type



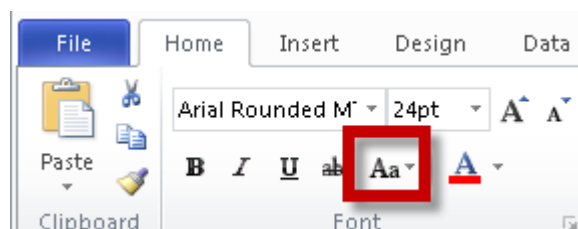
Font Size



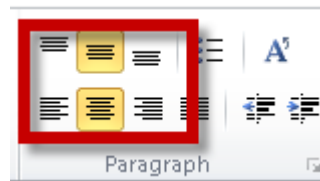
Font colour



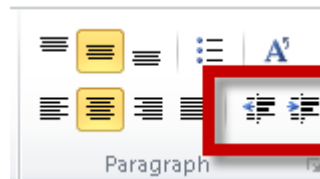
Font Case



Vertical Horizontal text alignment

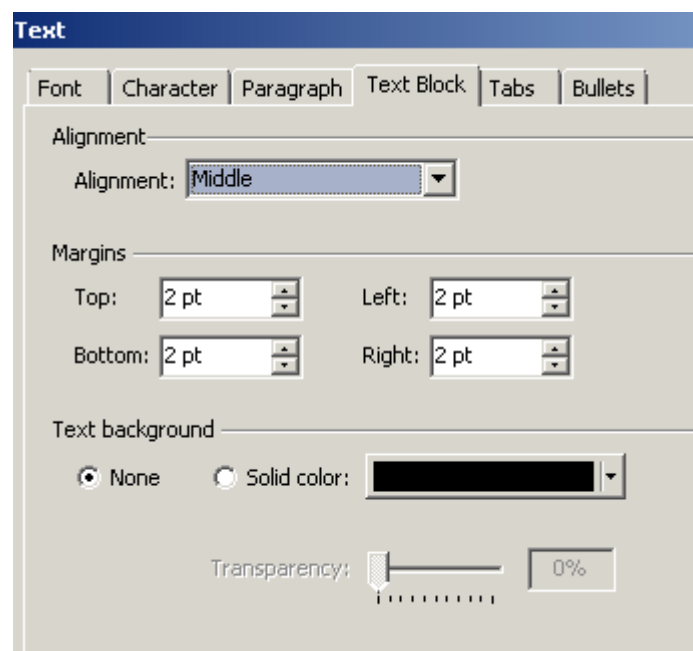


Change line indent

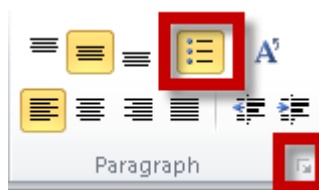


Change text margins and Text Background shading

Expand paragraph group to access advanced options **Text Block TAB**



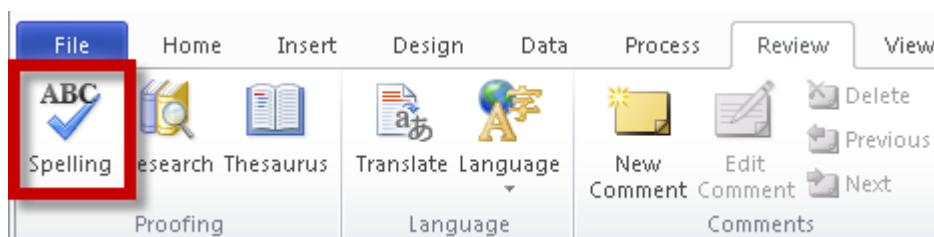
Bullets



Or select expanded group options **Bullets tab**

Spell check

- On the **Review** tab, in the **Proofing** group, click **Spelling**.



You can access this command quickly by adding it to the Quick Access Toolbar by right-clicking the **Spelling** button, and then clicking **Add to Quick Access Toolbar** on the shortcut menu.

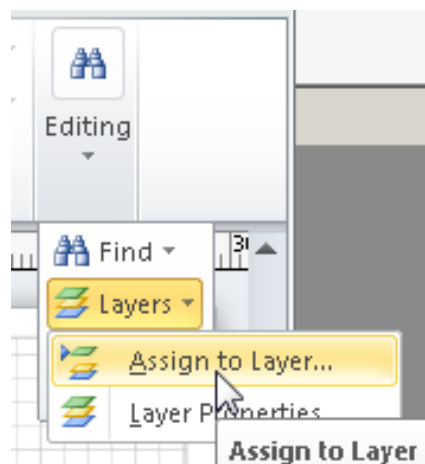
- If the program finds spelling mistakes, a dialog box or task pane appears with the first misspelled word found by the spelling checker.
- After you resolve each misspelled word, the program flags the next misspelled word so that you can decide what you want to do.

Layers

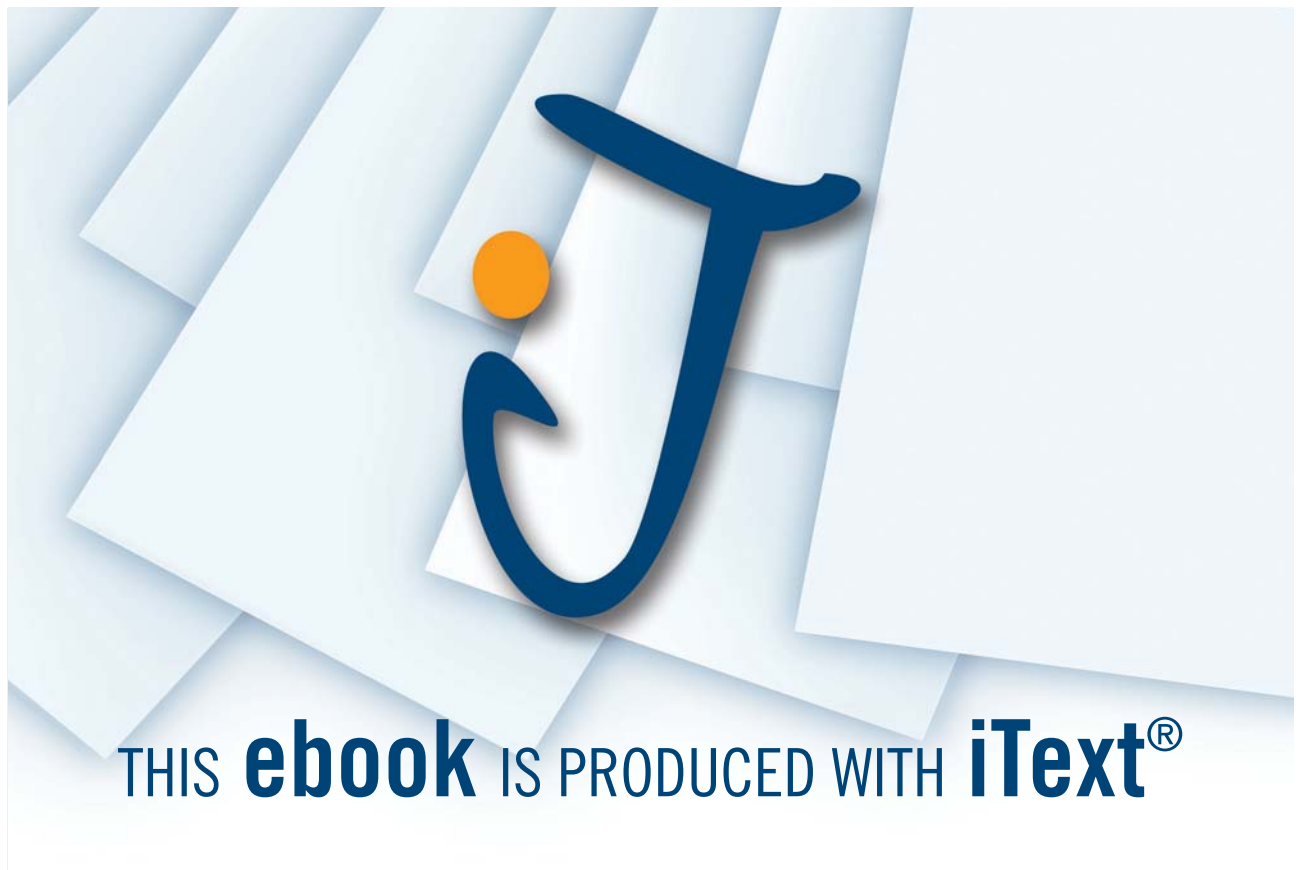
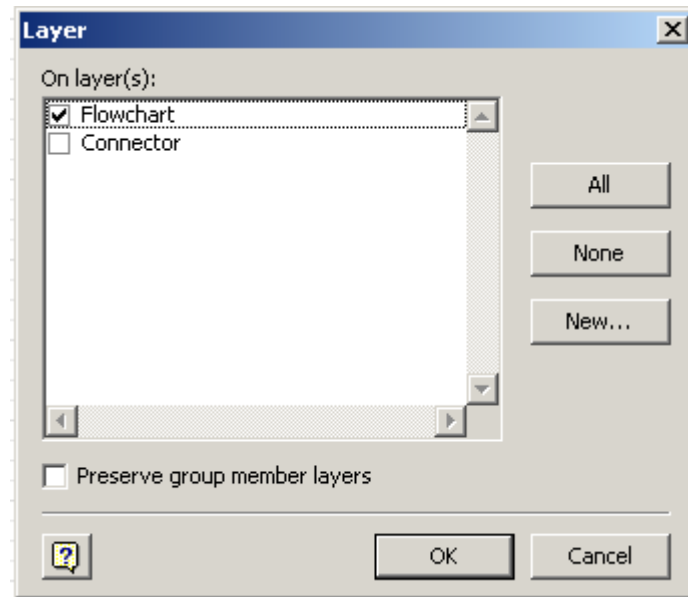
Effectively using layers in Visio can allow you layout multiple systems on one drawing page and then toggle between turning layers on/off depending on who is viewing the drawing. Layers allow you to have just one drawing page for each floor plan within your project that contains all systems for the project, e.g. security, lighting, A/V.

Assign a shape to a layer

- Select your shape
- From the home tab select **Editing**
- Select Layers, Assign to Layer

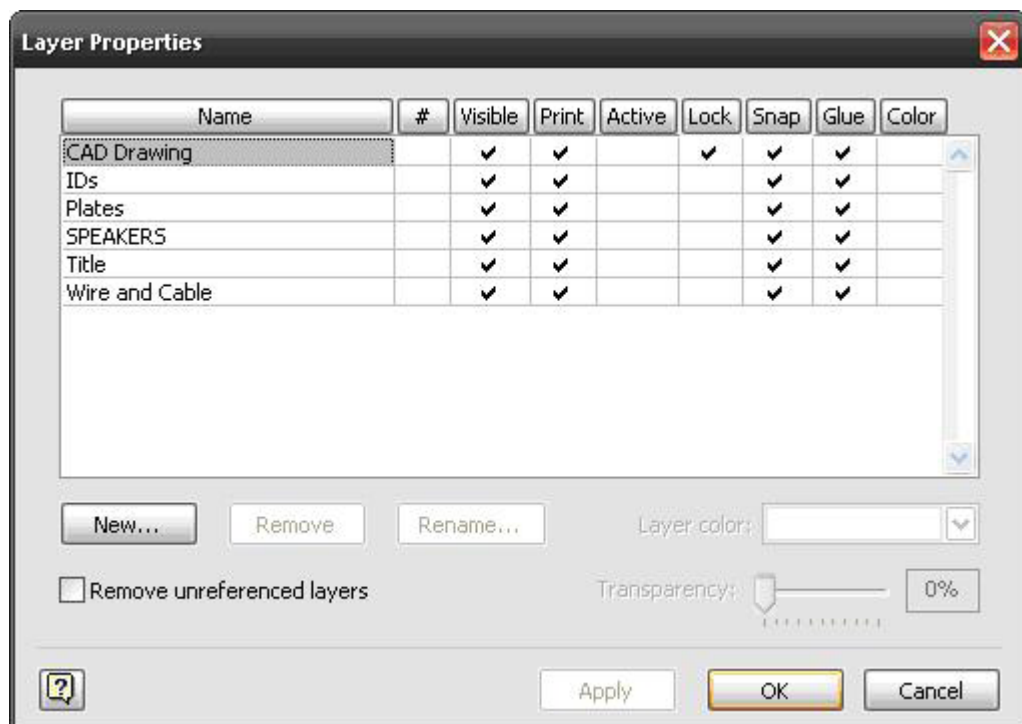
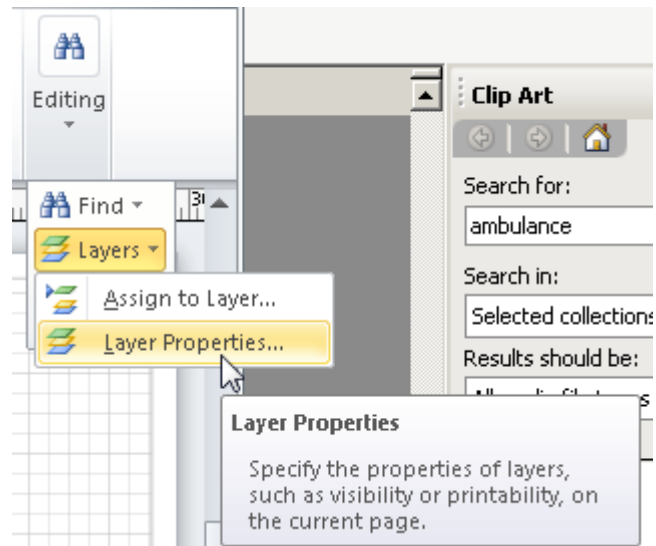


Visio sets the default layer for the shape as flowchart; many predefined shapes will be assigned a layer when you place it on your drawing.



Layer options

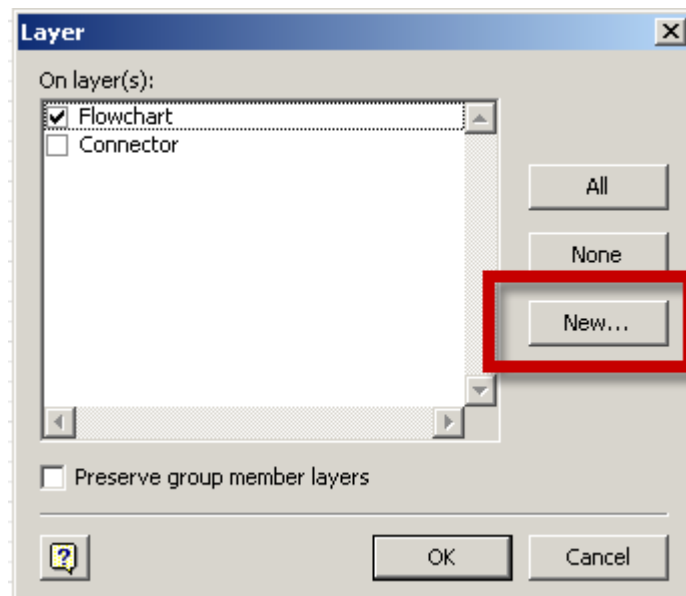
- From the home page select editing
- Layers, Layer Properties



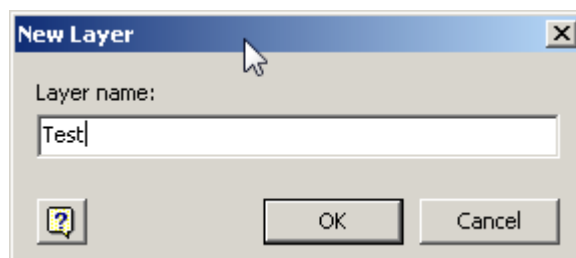
On this form you can lock layers as well as choose what layers are visible or not. You may wish to show a client the drawing without the wires showing. To do this, uncheck the “Visible” box for the Wire and Cable layer. The drawing will now display without the wires.

Add new layer

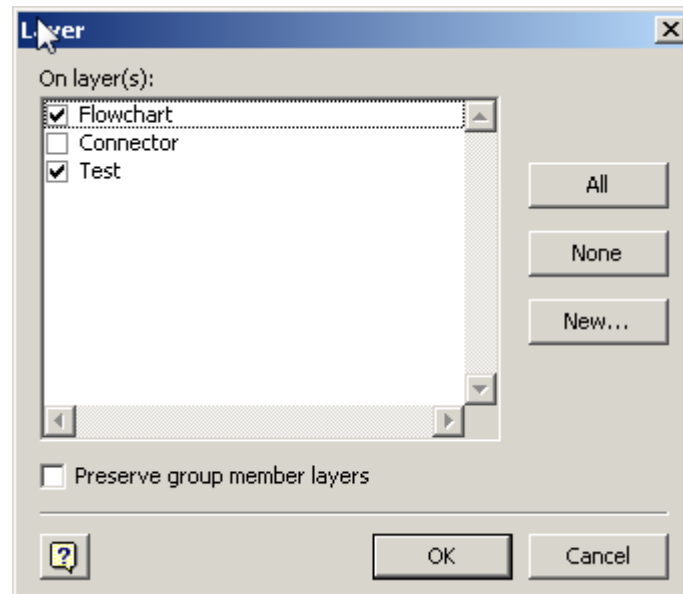
- Select your shape
- From the home tab select **Editing**
- Select Layers, Assign to Layer
- Select New



Add layer name



The layer you created has been assigned



- Un check flowchart to finish the procedure

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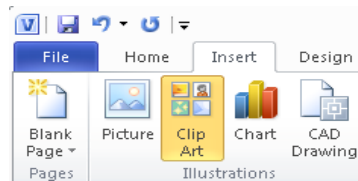
.....

**RUN FASTER.
RUN LONGER..
RUN EASIER...**

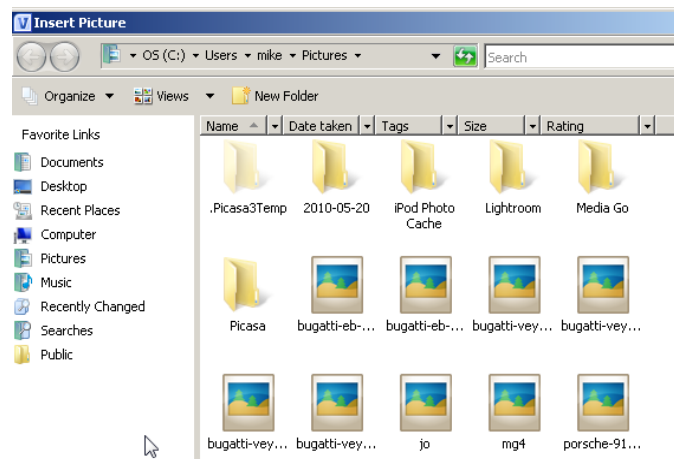
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Insert Clipart Insert Pictures

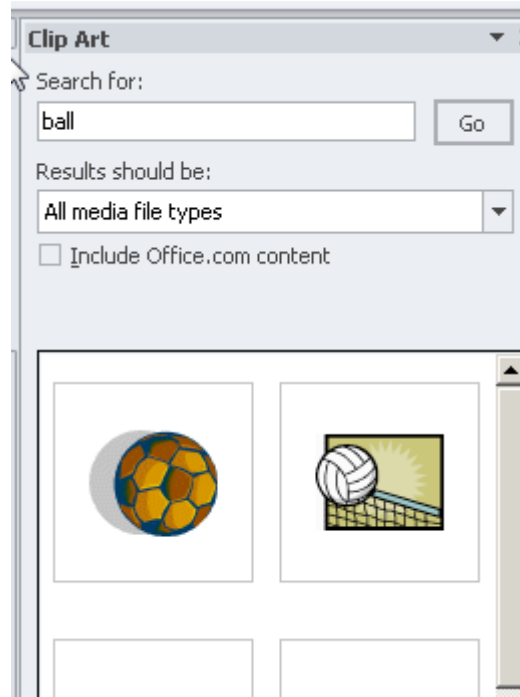
From the insert menu you can select either picture or clipart.



- Clicking on picture to open insert picture explorer, navigate to the picture of your choice to open.



- Clicking on clip art opens the clipart panel
- Type on what you want to search for and select media type
- Click on go for your results



Strømmen produseres ofte langt fra der den skal brukes.

Statnett sitt oppdrag er å gjøre strømmen tilgjengelig, uansett hvor i dette langstrakte landet du bor. Det er vi som bygger og drifter "riksveiene" i norsk strømforsyning. Gjennom vårt landsdekkende nett sørger vi for en sikker fordeling av strøm mellom nord, sør, øst og vest.

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Working with the shape sheet window

The main use of the shape sheet window is for programming beyond the scope of this course however below we have one tip for the manipulation of text.

Basic Text Resizing Formula

Char.Size is the ShapeSheet cell that holds the font size for the shape. It's located — aptly — in the **Character** section of the ShapeSheet

Character	Font	Size	Scale	Spacing	Color	Transparency	Style
0	THEME("LatinFont")	Height/3	100%	0 pt	THEME("TextColor")	0%	0
Paragraph	IndFirst	IndLeft	IndRight	SpLine	SpBefore	SpAfter	HAlign
0	0 mm	0 mm	0 mm	-120%	0 pt	0 pt	1
Tabs	Position	Alignment	Position	Alignment	Position	Alignment	Position
0							

$\text{=height}/3$, is the formula used to give text $1/3^{\text{rd}}$ the height of the text box experiment with the following. $\text{=HEIGHT}/2$, $\text{=HEIGHT}/2.5$, $\text{=HEIGHT}/2.25$



The font-size for this shape won't change with the Width of the shape, only the Height.

Shape properties

A Microsoft Office Visio drawing is more than a picture it's also a valuable way to store data. A shape can act as a visual database field that stores data you can retrieve in a report. For example, a flowchart shape can store data about the cost, duration, and resources involved in the process step the shape represents.

Many Visio shapes have predefined custom properties so you can associate data with or affect the appearance of the shape. For example: Many of the flowchart shapes have custom properties in which you can enter cost, duration, and resources information.

Some office layout shapes have custom properties in which you can enter information such as inventory number and owner. Some shapes have properties that change the appearance of the shape, such as the dimension, type, and offset properties of the shapes on the **Walls, Doors and Windows** stencil.


You can edit custom properties in existing shapes, add new properties, or delete properties you don't need. You can also add custom properties to new shapes you create. For example, you can add a new custom property to furniture shapes to store the cost of the item. Where you edit custom properties depends on what you intend to do with the shapes.

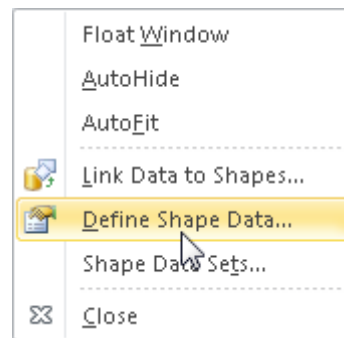
To edit custom properties for only a single shape, edit the shape on the drawing page.

To add a group of the same custom properties to many shapes on a drawing or on a custom stencil, create a custom property set. For example, to add Employee Number, Start Date, and Salary properties to the shapes in an organization chart, you could create a custom property set with those properties and then add it to all of the shapes in an organization chart.

Setting up Shape Properties

Add TEXT

Shape Dat...  	
Cost	
Process Numbe	
Owner	
Function	
Start Date	
End Date	
Status	



Define Shape Data

Label:

Name:

Type: Language:

Format: Calendar:

Value:

Prompt:

Sort key:

☐ Ask on drop ☐ Hidden

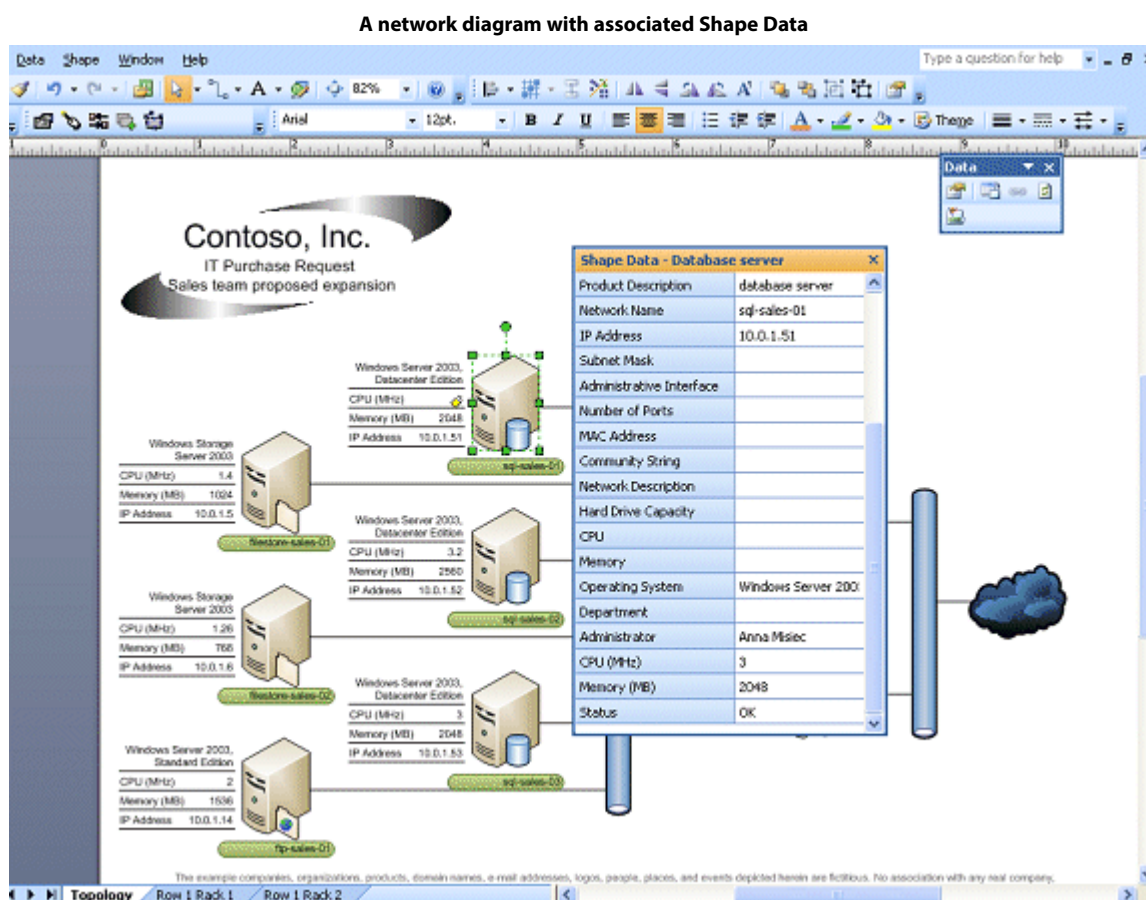
Properties:

Label	Name	Type
Cost	Cost	Currency
Process Number	ProcessNumber	Number
Owner	Owner	String
Function	Function	String
Start Date	StartDate	Date

Shape Reports

Generating an Excel Bill of Materials from Data Stored in Shapes by Using the Reports Tool

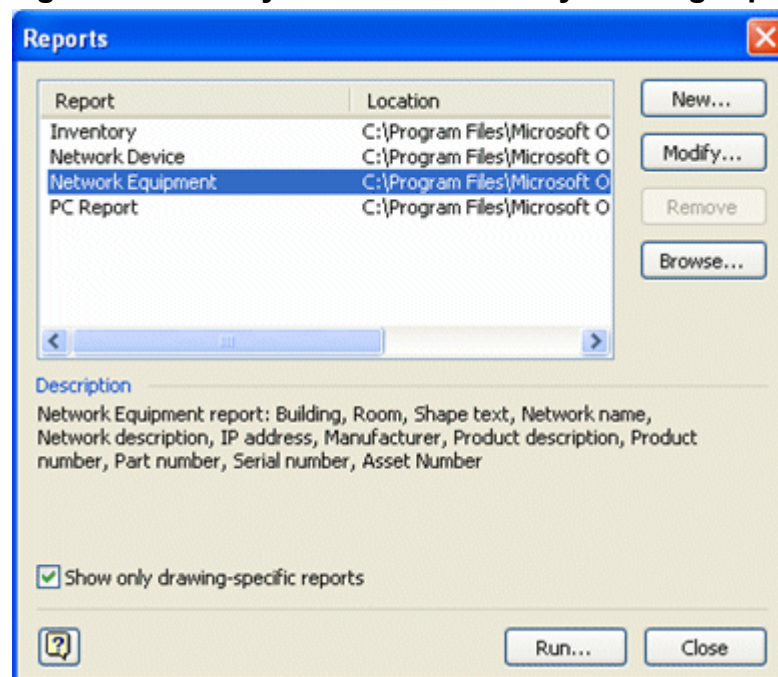
From within Visio 2010, you can create reports that present your data in a variety of ways. One example is reporting data from Visio 2010 to Office Excel. If you create a drawing and you add data to the shape or to your Shape Data fields, you can generate an Excel report summarizing that data. In the graphic below, data has been associated with the equipment shapes in the diagram by using Shape Data fields, and it is displayed by using data graphics.



To report on the data contained in the diagram

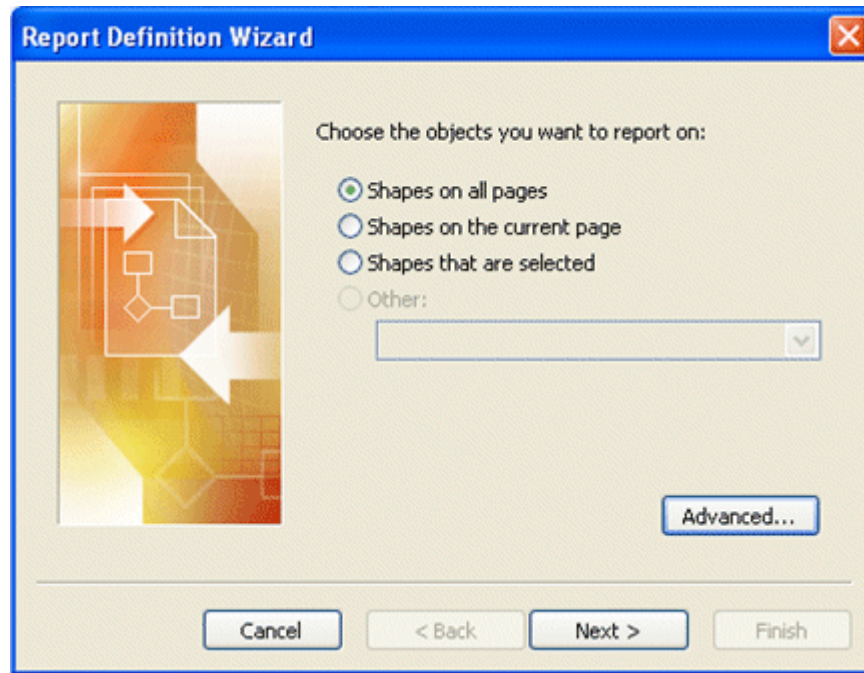
1. On the **Data** menu, click **Reports**.
2. In the **Reports** dialog box, choose the report to run. You can modify an existing report or you can create and save a new report.

The Reports dialog box enables you to run or modify existing reports or to create a



report

3. By selecting **Modify** or **New**, you can choose the fields on which you want to report.
4. In the **Report Definition Wizard**, choose which shapes you want to include in your report: **Shapes on all pages**, **Shapes on the current page**, or **selected shapes**.
5. **Specify which shapes are in your report**



6. On the next page of the **Report Definition Wizard**, specify which fields you want to export to your Excel 2007 report.
7. On the next page, type a title for your report and indicate how you want the data sorted and formatted.
8. Run the report. Select Excel as the reporting format.
9. **Data reported to Excel from the Visio 2010 network diagram**

Network Name	IP Address	Manufacturer	Administrator	CPU (MHz)
filestore-sales-01	10.0.1.5	Contoso, Ltd.	Anna Misiec	1.4
filestore-sales-02	10.0.1.6	Contoso, Ltd.	Anna Misiec	1.26
ftp-sales-01	10.0.1.14	Contoso, Ltd.	Anna Misiec	2
sql-sales-01	10.0.1.51	Contoso, Ltd.	Anna Misiec	3
sql-sales-02	10.0.1.52	Contoso, Ltd.	Anna Misiec	3.2
sql-sales-03	10.0.1.53	Contoso, Ltd.	Anna Misiec	3
web-sales-02	10.0.1.13	Contoso, Ltd.	Don Hall	2
web-sales-03	10.0.1.15	Contoso, Ltd.	Don Hall	2.4

Pivot Diagrams: Analyzing Data by Using Different Views

Visio 2010 enables you to easily track trends, identify potential problem areas, and flag exceptions by using Pivot Diagrams.

Pivot Diagrams, new in Visio 2010, give you the power to visualize business data in a variety of ways. Pivot Diagrams show data as a collection of shapes arranged in a tree-like structure that helps you to analyze and summarize data in a visual, easy-to-understand format. By using Pivot Diagrams, you can visually explore your business data, analyze it, and create multiple views of it to gain deeper insight into the information.

You can also apply conditional formatting to track trends, identify potential problem areas, and flag exceptions. Pivot Diagrams are a graphical representation of the same kinds of information you might view in a pivot table. For example, you might show variable data as progress bars, demonstrate data that increases or decreases with arrows or speedometers, and indicate incomplete or problem data by displaying a large red X. You can insert a Pivot Diagram into any other Visio diagram to provide a complementary view of the data.

To create a Pivot Diagram, open the **Pivot Diagram** template; the **Data Selector Wizard** starts immediately. From another drawing type, on the **Insert Data** menu, you can also select **Insert Pivot Diagram**. The wizard guides you through each step of connecting the diagram to a data source, and then creates what is called a “pivot node,” which is linked to all of the data in the data source. You can expand the pivot node to show various levels that correspond to the data that you want to analyze.

You can use Pivot Diagrams to view data in a variety of ways. In the previous illustration, the data is first categorized by **Administrator** and then by **IP Address**. In illustration, notice that:

- The **Count** Field, **Memory** field, and **CPU** field are numeric categories and can be accumulated at each level.
 - You can associate shapes with the pivot nodes to better illustrate each level. In this example, a person shape is associated with the node at the **Administrator** level and a computer shape is associated with each node at the **IP Address** level.
10. You can apply data graphics to make the information in the diagram stand out more distinctly. A data graphic has been applied for the amount of memory in each computer. If the computer has at least 1 MB of memory, the data graphic shows a green check mark. If the computer has less than 1 MB of memory, the data graphic shows a red X.



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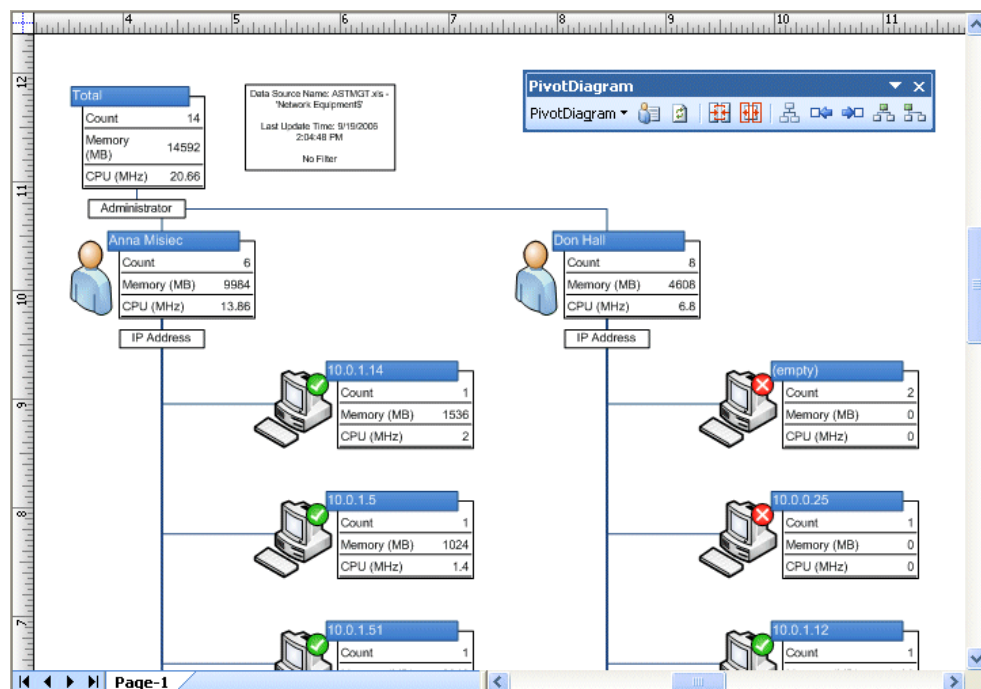
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NITO NORGES STØRSTE ORGANISASJON FOR INGENIØRER OG TEKNOLOGER



Pivot Diagram showing inventory of network equipment



Categories, Levels, and Nodes

To understand categories, levels, and nodes, think of each element in the context of your data source:

- Notice that each column of your data source is either non-numeric or numeric.
- Think of the non-numeric columns as categories—for example, **Manufacturer**, **Administrator**, or **IP Address**. Any of these can become a level under the top node.



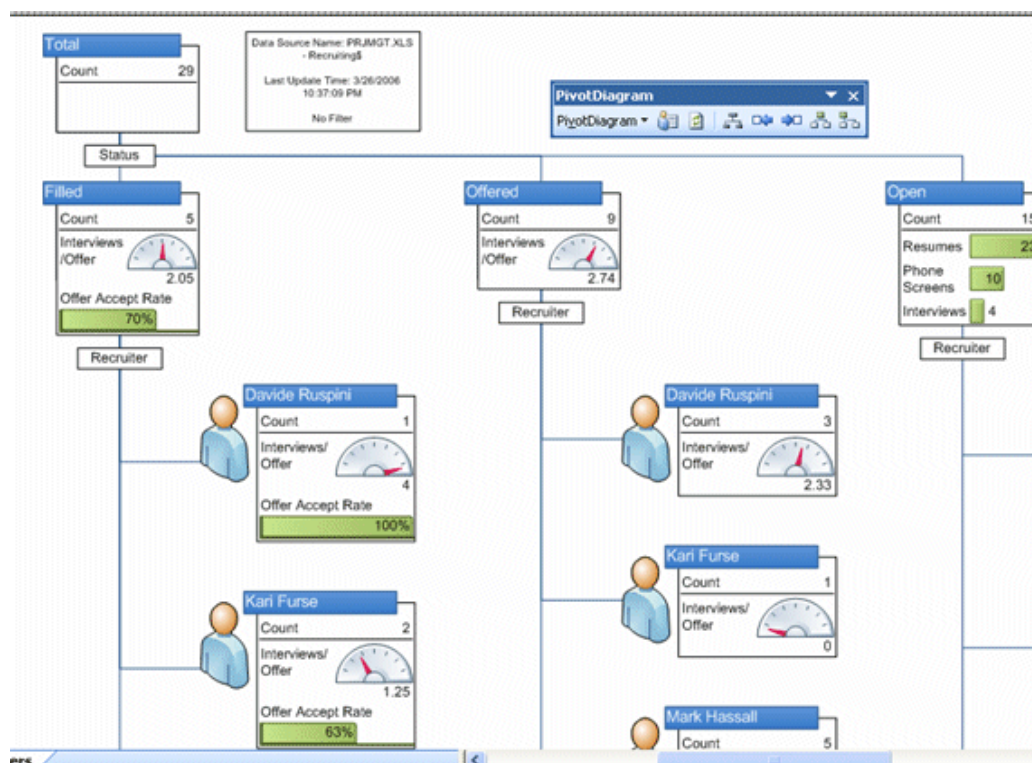
Note: The values under a column like **IP Address** might be numbers, but they are not numbers that can be totaled or otherwise summarized.

- Think of the numeric columns as data, such as numbers or currency, that can be summed or averaged, or that have minimum or maximum values.
- Think of each node as a group of rows from your data source that have a common value in a specified column. For example, for the category **Administrator**, all the rows with “Don Hall” would be grouped into a single node.

You can use the following data sources to create a Pivot Diagram:

- Microsoft Office Excel workbooks
- Microsoft Office Access databases
- Microsoft Office SharePoint lists
- Microsoft SQL Server databases
- Microsoft SQL Server Analysis Services
- Other OLE databases or Open Database Connectivity (ODBC) data sources

A Pivot Diagram demonstrating recruiting information by Status



Drag a report shape onto the drawing page.

Space report

The **Space report** shape creates a tabular report of the spaces in your drawing.

Asset report

The **Asset report** shape creates a tabular report of the assets in your drawing.

Move report

The **Move report** shape creates a tabular report of the rooms people are in.

Door schedule

The **Door schedule** shape creates a tabular report of the doors in your drawing.

Window schedule

The **Window schedule** shape creates a tabular report of the windows in your drawing.

1. If items in the drawing change, you can refresh the information in the report. To run the report again, right-click the report shape, and then click **Run Report**.



Skatteetaten



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Shape Protection

To protect a shape

1. Select a shape.
2. From the **Developer Tab**, click **Protection**.
3. Select the shape attributes that you want to lock, or clear the check boxes for the attributes you want to unlock, and then click **OK**.



Note: As long as an ink shape can be selected for editing (with one of the available pen tools), ink strokes can be added to or erased from the ink shape even when various shape attributes are selected in the **Protection** dialog box. To prevent any changes to an ink shape, lock the shape against selection.

To protect a Drawing

1. On the **Developer Tab**, click **Drawing Explorer Window**.
2. Right-click the name of the drawing, and then click **Protect Document**.
3. From the **Protect dialog box**, select **Shapes**, and then click **OK**.

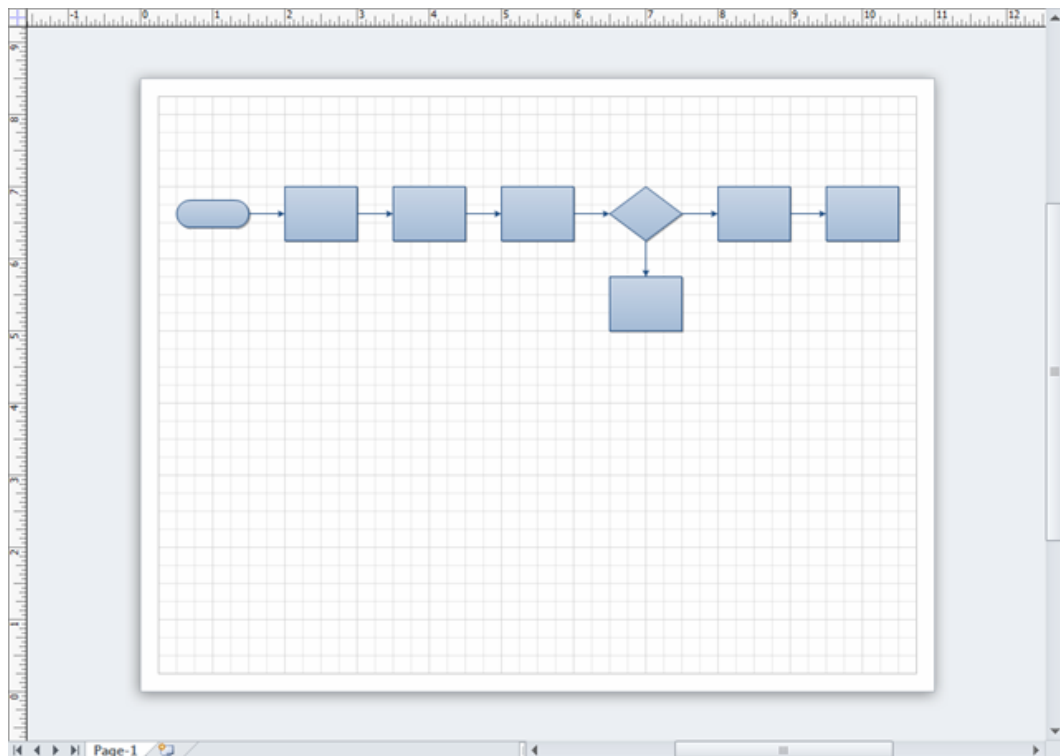
To unprotect a Drawing

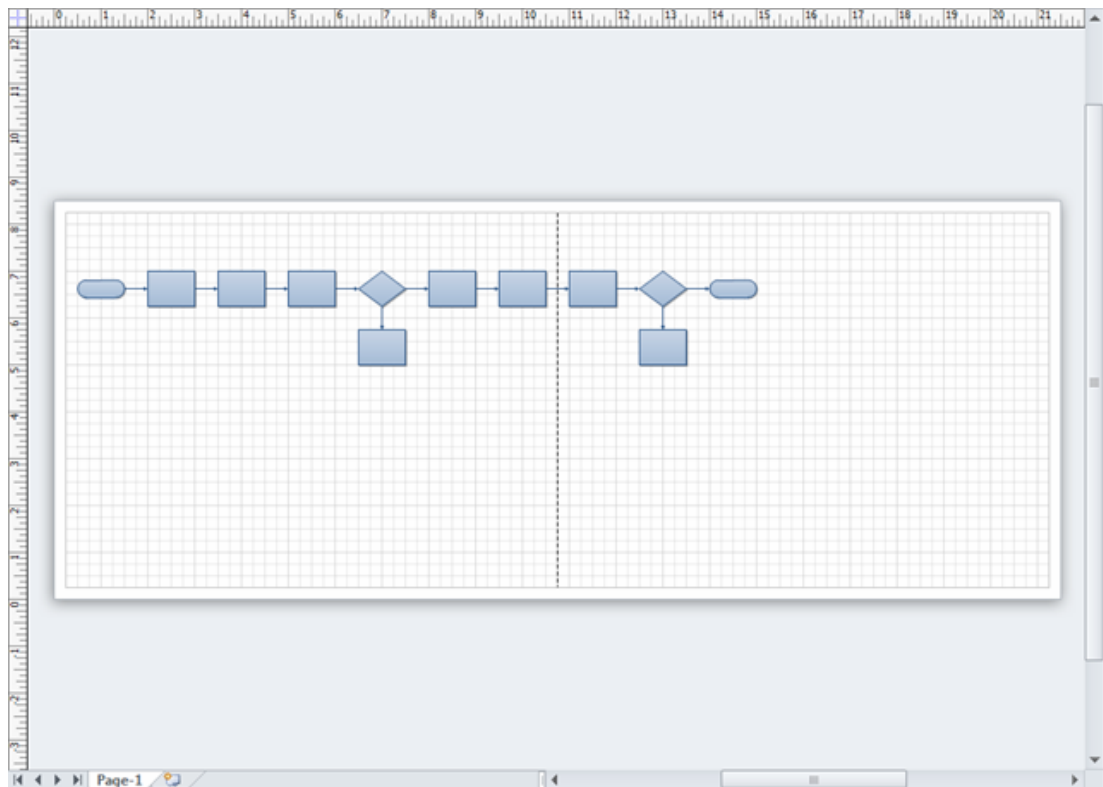
To unlock shapes from selection, follow the previous steps, but clear the **Shapes** check box, and then click **OK**.

Automatic page sizing

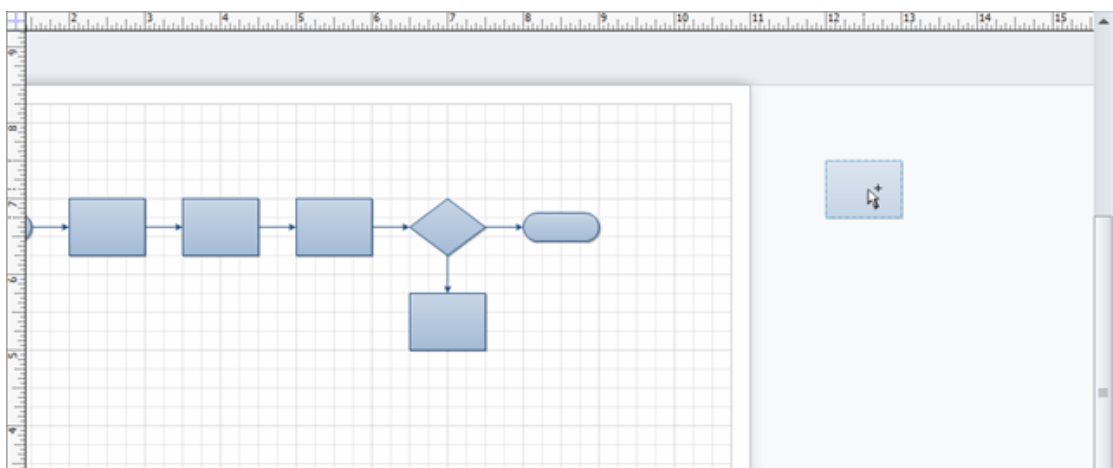
When you start a new diagram, you typically begin with a single drawing page that is the size of a standard piece of printer paper. Many diagrams grow beyond the size of a single printed sheet. Visio 2010 adds a dynamic page sizing capability that responds as you draw, so you no longer have to manually adjust your page size to your diagram.

As you draw beyond the edge of the current page, Visio expands the page in that direction by one additional tile, or printer paper sheet.



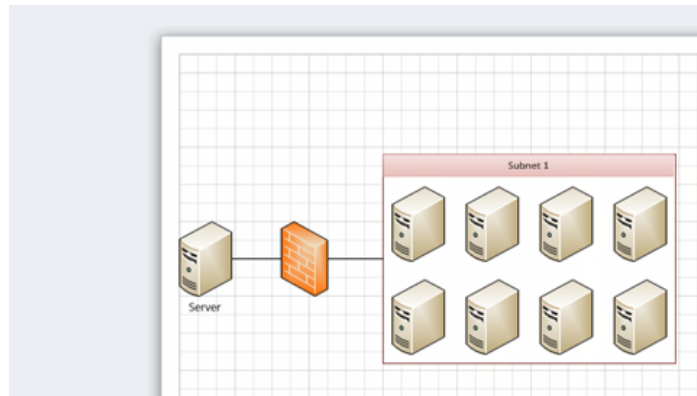


If you live preview adding a shape with Auto Connect, Visio also previews the tiles that will be added. As you drag shapes outside the current page or drag shapes from the Shapes window, Visio shows a translucent preview of the new tiles that will be added if the shape is dropped in its current location.

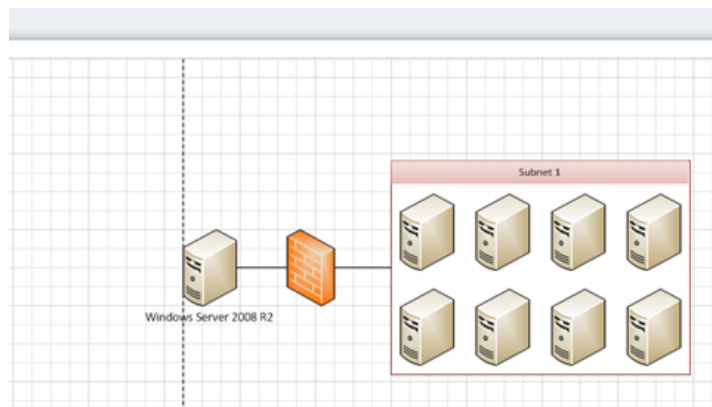


All sorts of things can affect the size of your diagram when printed, including adding shapes, deleting shapes, moving shapes, adding or removing text and changing text properties. Any of these will alert Visio to update the page larger or smaller to keep the drawing within full tiles.

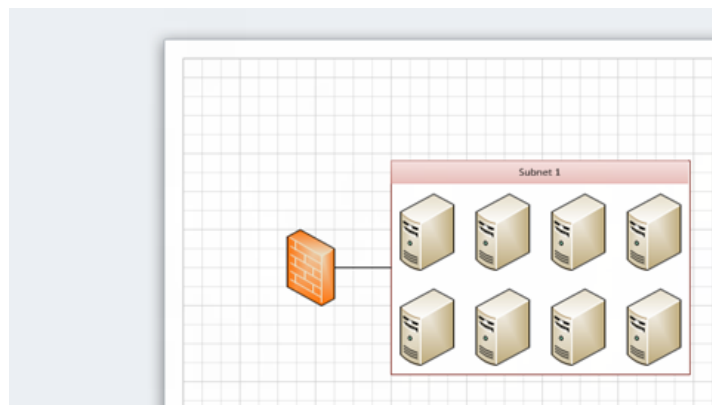
Start with this:



Add more text:

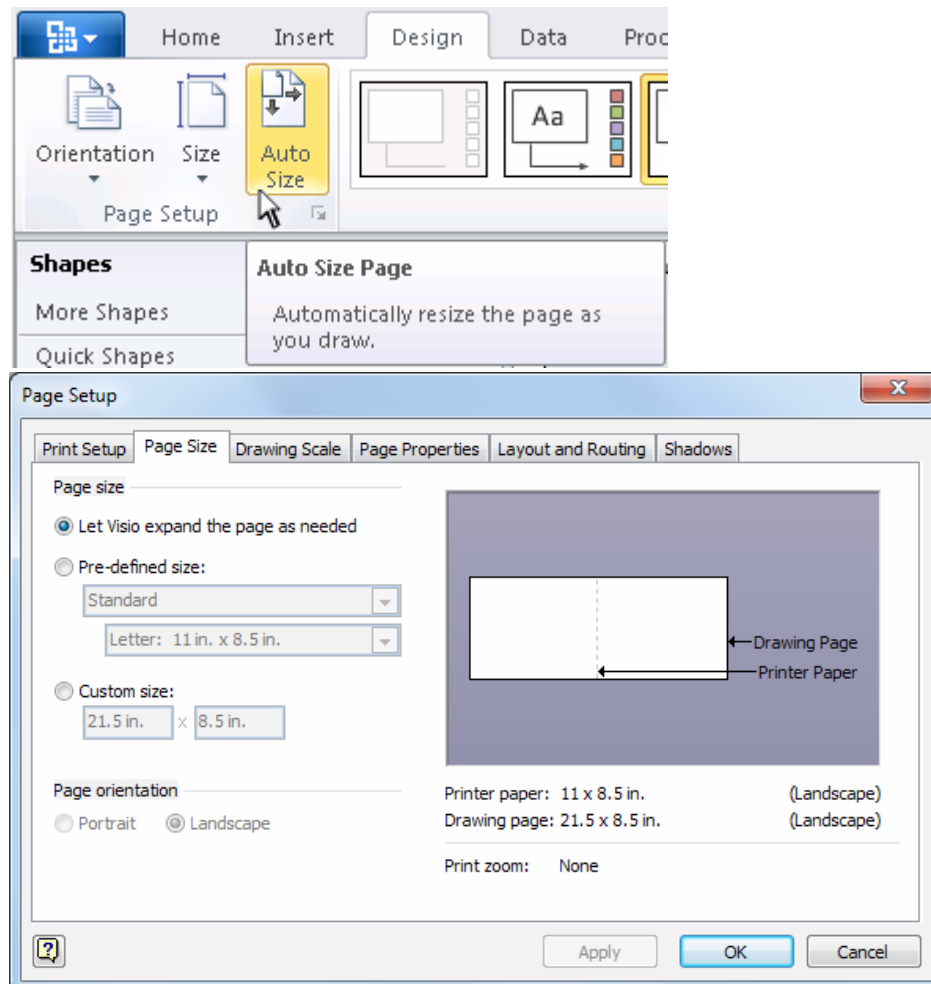


Delete the shape:

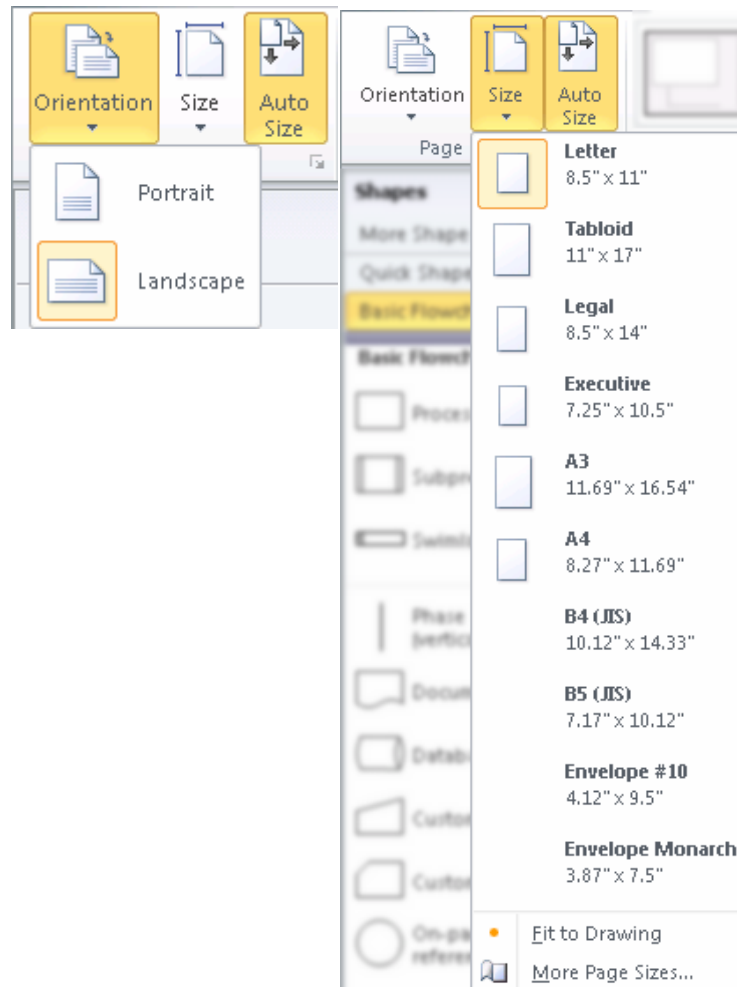


You may also notice that the depiction of page breaks and margins is different than in Visio 2007. We simplified the look of page breaks and many people will find them similar to Excel's. Margins are now a clear white area around the entire page. also enabled is showing page breaks and margins by default in new drawings, to help make it clear how Visio is adjusting your page.

This auto sizing behavior is controlled using the Auto Size toggle button on the Design tab. If you click the dialog launcher and open the Page Setup dialog, you'll see we replaced the now-defunct "Same as printer paper size" option with "Let Visio expand the page as needed". The sharp-eyed Visio expert will notice that the "Size to fit drawing contents" option is also gone from the dialog. Since that item was more of a one-time action than a persistent state of tightly fitting the page to the diagram, we moved it to the Page Size dropdown and renamed it "Fit to Drawing".



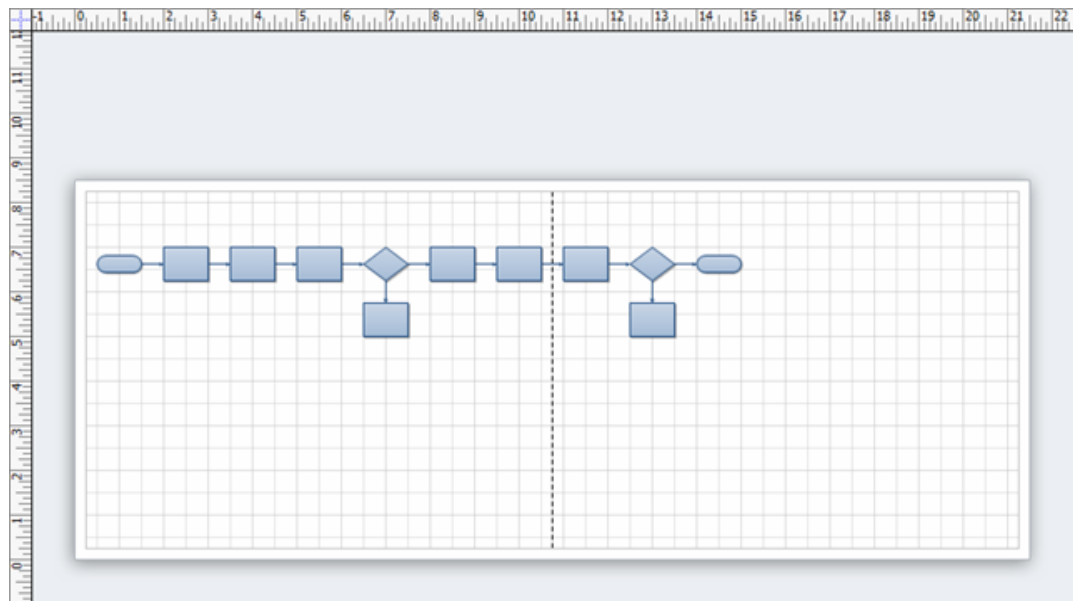
Since we're talking about page sizing, it's also worth taking a quick look at manual page adjustments. The Orientation and Size dropdown buttons on the Design tab surface the most commonly-used items from the Page Setup dialog.



When Auto Size is enabled, these reflect the orientation and size of the printer paper (the tiles in the drawing page), because Auto Size controls the size of the page based on the printer paper settings. Changing them changes the orientation and size of the printer paper settings. If you change these, the number of tiles required to contain the diagram may also change, so your drawing page may change size.

Size = Letter (8.5" x 11")

Orientation = Landscape



Size = Letter (8.5" x 11")

Orientation = Portrait



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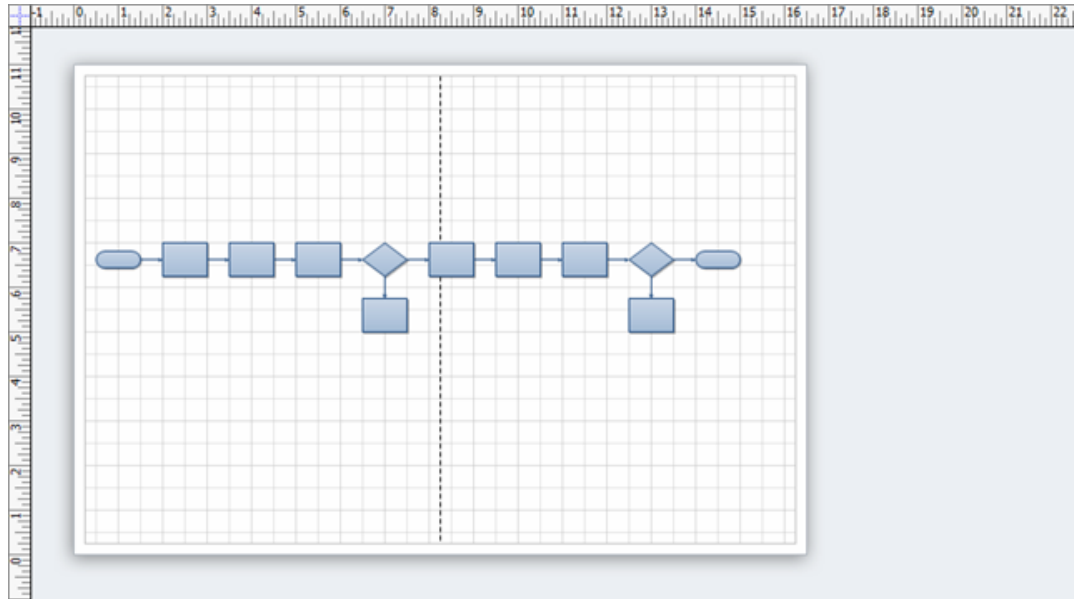
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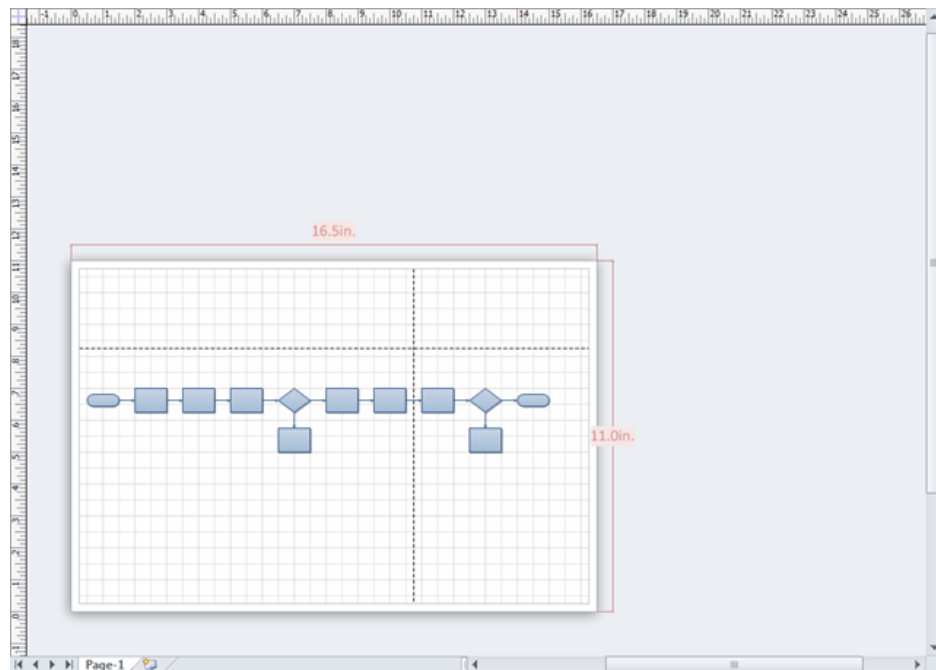




When Auto Size is disabled, these reflect the orientation and size of the **drawing page**, because you are controlling it, not Visio. Changing them sets both the drawing page and the printer paper settings, to keep them in sync.

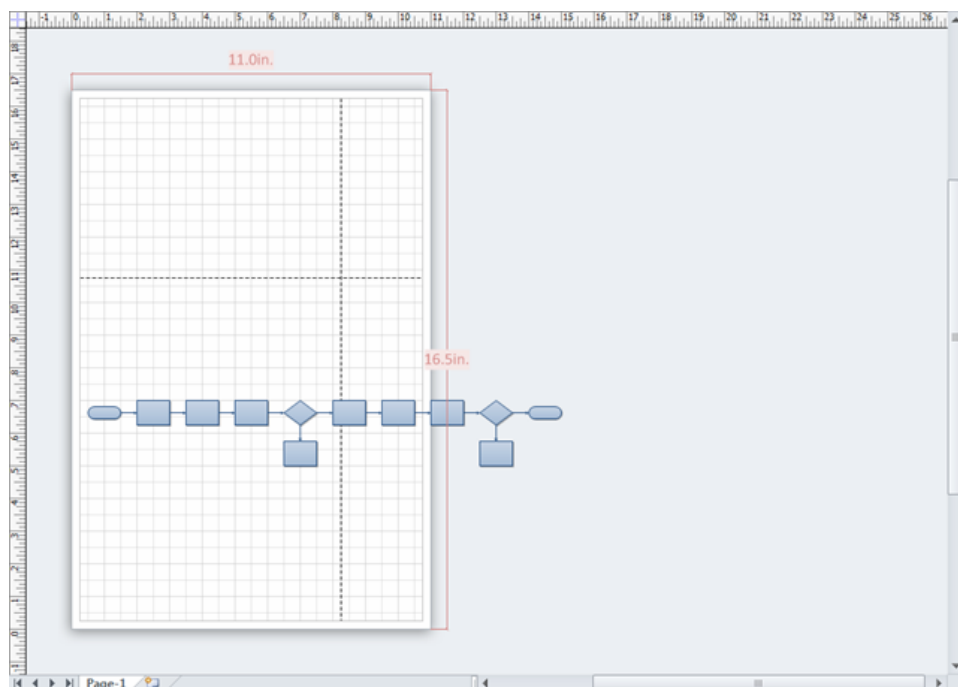
Size = Letter (8.5" x 11")

Orientation = Landscape



Size = Letter (8.5" x 11")

Orientation = Portrait



Essentially, we made Orientation and Size work as expected depending on context – whether Auto Size is on or off. That is, whether you have Visio taking care of the page size or if you are doing it



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Diagram Validation

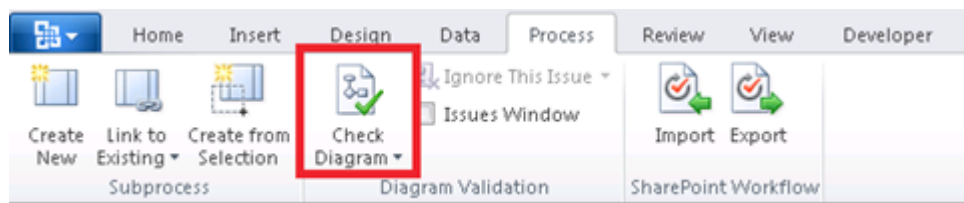
Are all the shapes in my diagram labeled? Do I have any loose connectors that are not attached to other shapes? We have heard from customers that it is often hard to answer these types of questions, especially in large diagrams. As a result, they spend a lot of time manually checking diagrams for errors. At the same time, they have to manually ensure that the different diagrams they create are visually consistent.

Many companies also want to enforce certain diagramming standards or rules within their organization. It's much easier for different people to understand a diagram if it uses standardized notation. As an example, many companies are adopting BPMN as a standard for business process modeling.

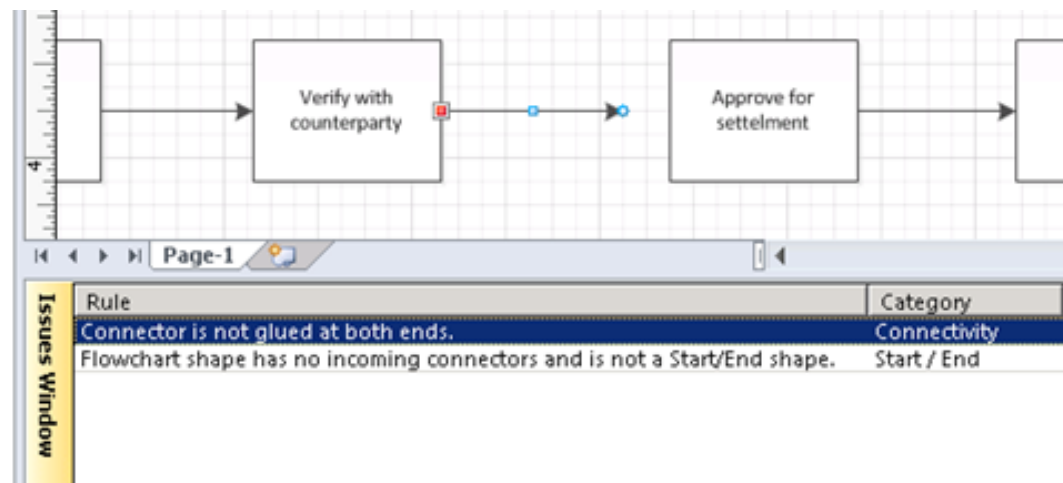
To address these needs, support for diagram validation in Visio 2010, Allows users to check their diagrams for common errors and allows companies to ensure that employees are following certain diagramming standards.

With Visio 2010, included is diagram validation support for Basic Flowchart, Cross Functional Flowchart, and Microsoft SharePoint Workflow and Business Process Modeling Notation diagrams. Companies can also develop custom rules for their own needs.

- You can access the diagram validation functionality from the **Process** tab. Once you start working on a diagram with a supported set of rules, you can click the **Check Diagram** button to see whether the diagram has any issues.

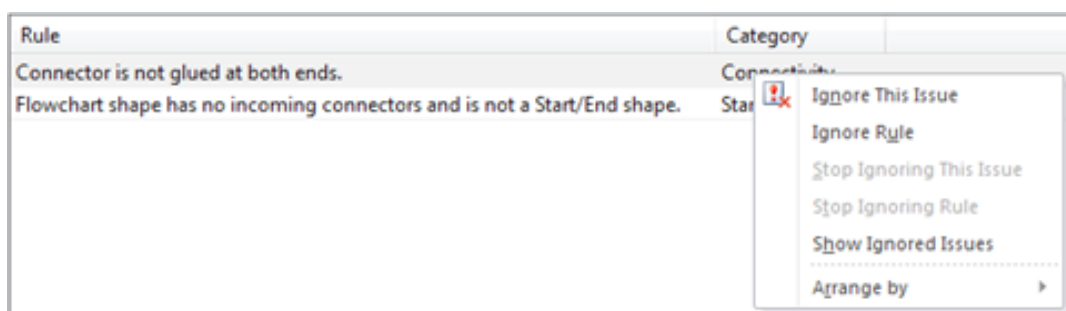


Visio will either tell you that there are no issues in the document, or it will list the issues in the **Issues Window**. In the diagram below, a connector is not attached to the next shape in the flowchart. When the **Check Diagram** button is clicked, Visio displays two issues to fix. To easily find shapes with issues, you can click on an issue and the corresponding shape will be selected.



Once you fix the listed issues, you can click **Check Diagram** to check that there are no longer any issues with the diagram. Sometimes you might find that an issue does not apply to a certain shape in your diagram. When this happens, you can ignore the issue and Visio will not display it in the **Issues Window**.

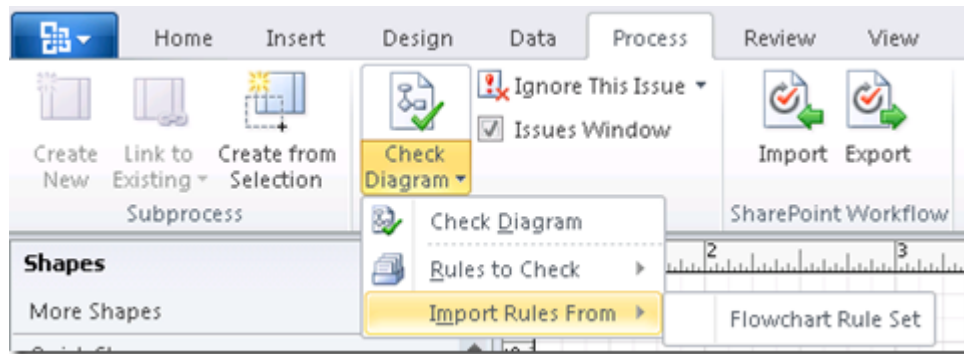
If a rule does not apply to the entire diagram, you can also ignore the rule so that no issues associated with that rule are displayed. You do this by right-clicking an issue in the **Issues Window**, and selecting the appropriate option.



Using the same menu, you can also choose to display the ignored issues and to rearrange issues in the **Issues Window** so that issues with the same rule, category or page are next to each other.

Validation rules are grouped into logical sets of rules, such as BPMN and flowchart rule sets. When you create a new Basic Flowchart, Cross Functional Flowchart, Microsoft SharePoint Workflow or Business Process Modelling Notation diagram in Visio 2010, the appropriate rule set is automatically available in your document.


It is also easy to import the flowchart rule set into flowchart diagrams made with previous versions of Visio. Simply open your legacy diagram in Visio 2010 and, on the Process tab, click the Check Diagram pull-down menu and then click Import Rules From.



The flowchart rule set is always available to import into a diagram. You can also import rules from other Visio diagrams. Any open diagrams with rules sets will be listed as possible sources to import rules from. This makes it easy to add new validation rule sets to any diagram.

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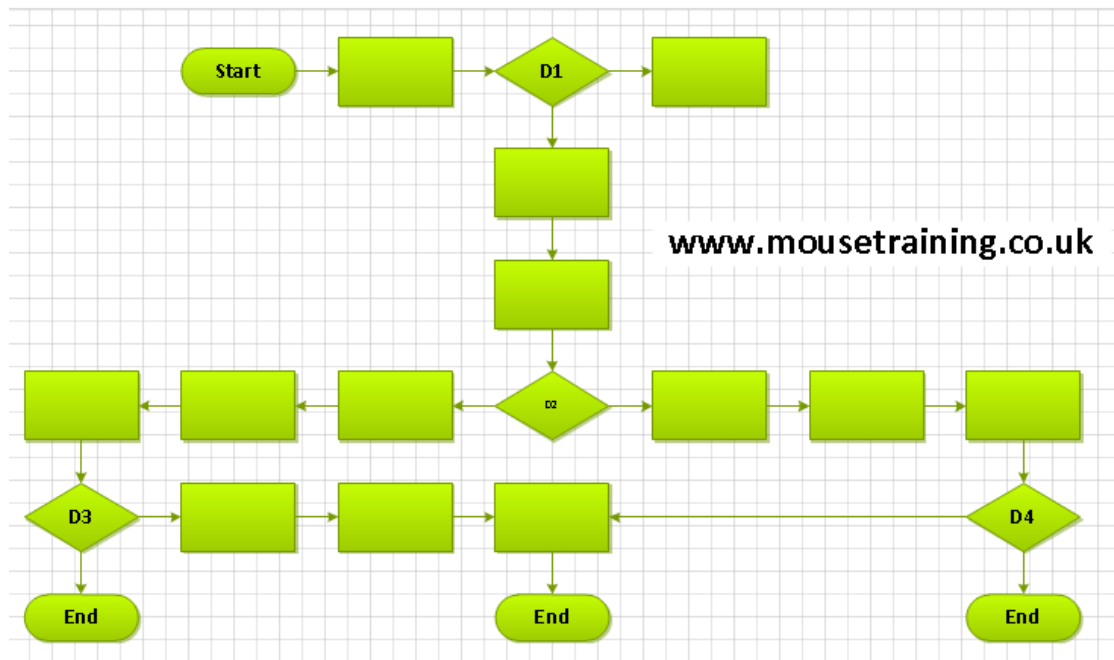
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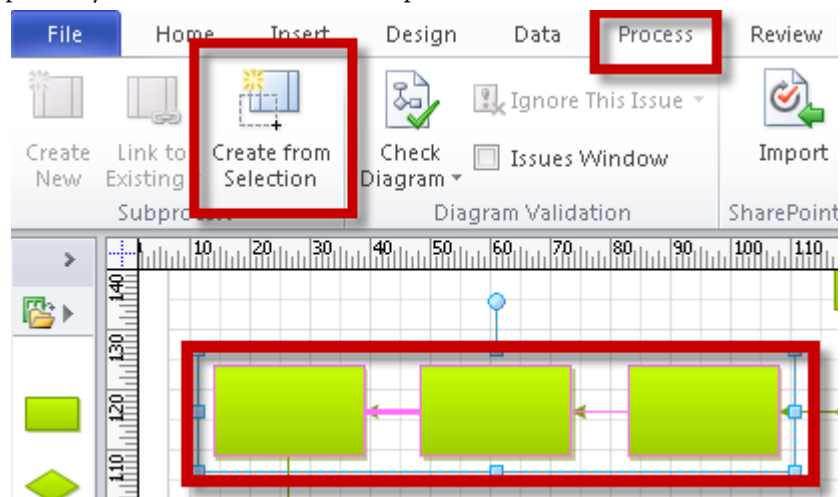
Sub process

The following assumes you already have a process map to work with.



A somewhat cluttered process map.

1. Select the process you wish to include as a sub-process



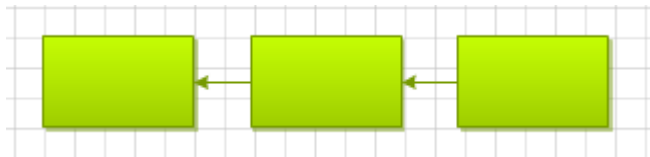
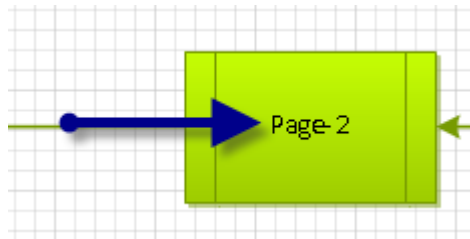
2. Click on the **Process** tab in the Office Ribbon.

3. Click on **Create from Selection** in the *Subprocess group*.

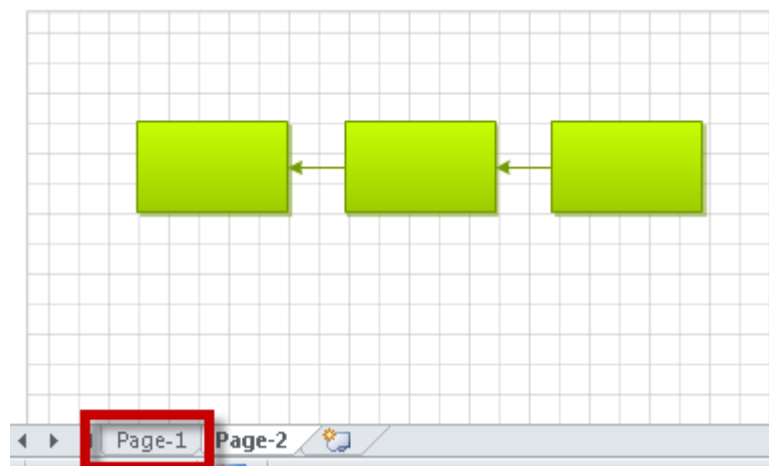
You will notice that the process steps you selected will become one Subprocess shape. You will also notice that a new sheet was added to the Visio file.



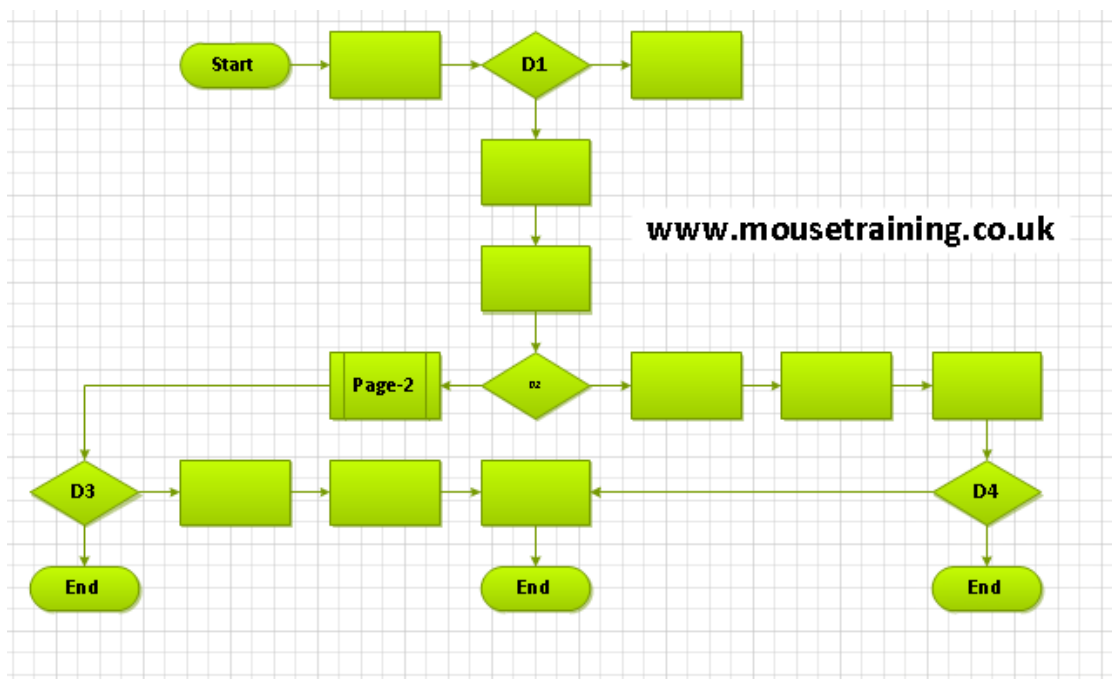
4. To open the Subprocess, hold down the Control [Ctrl] key on your keyboard while clicking on the process.



The newly created page will open containing the process steps you included as a Subprocess.



5. To return to the main process page, simply click on the appropriate page tab at the bottom of the screen.



The entire process map and the Subprocess should appear.

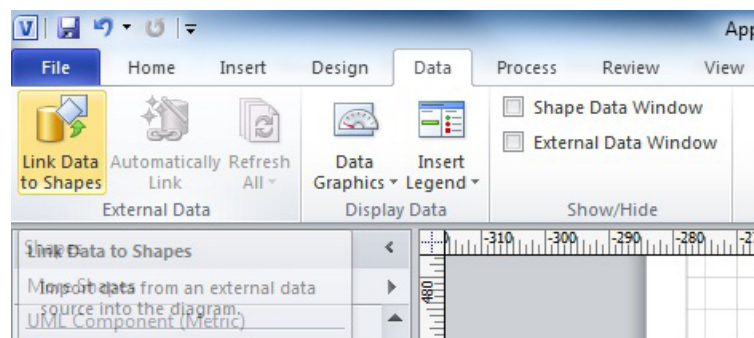
Link to external Data

Scenario

Having worked on a state charts for a system re-development and I had a list of existing states from the old application that I wanted to cross reference against the new states I had modeled.

Rather than eyeballing everything manually I decided to use the excel .xls with my list of status as a data source in Visio and see what was missing from my updated model.

- First select the 'Link Data to Shapes' option from the Visio ribbon.



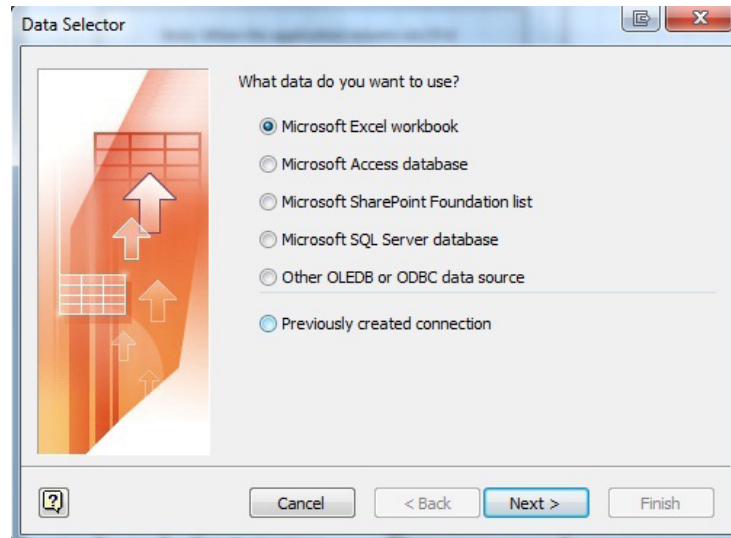
"I studied English for 16 years but...
...I finally learned to speak it in just six lessons"

Jane, Chinese architect

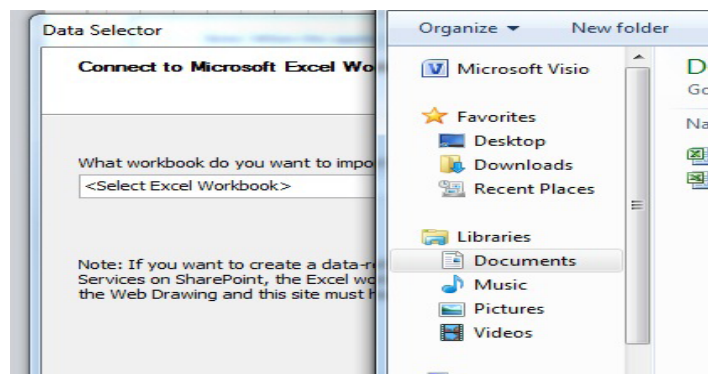
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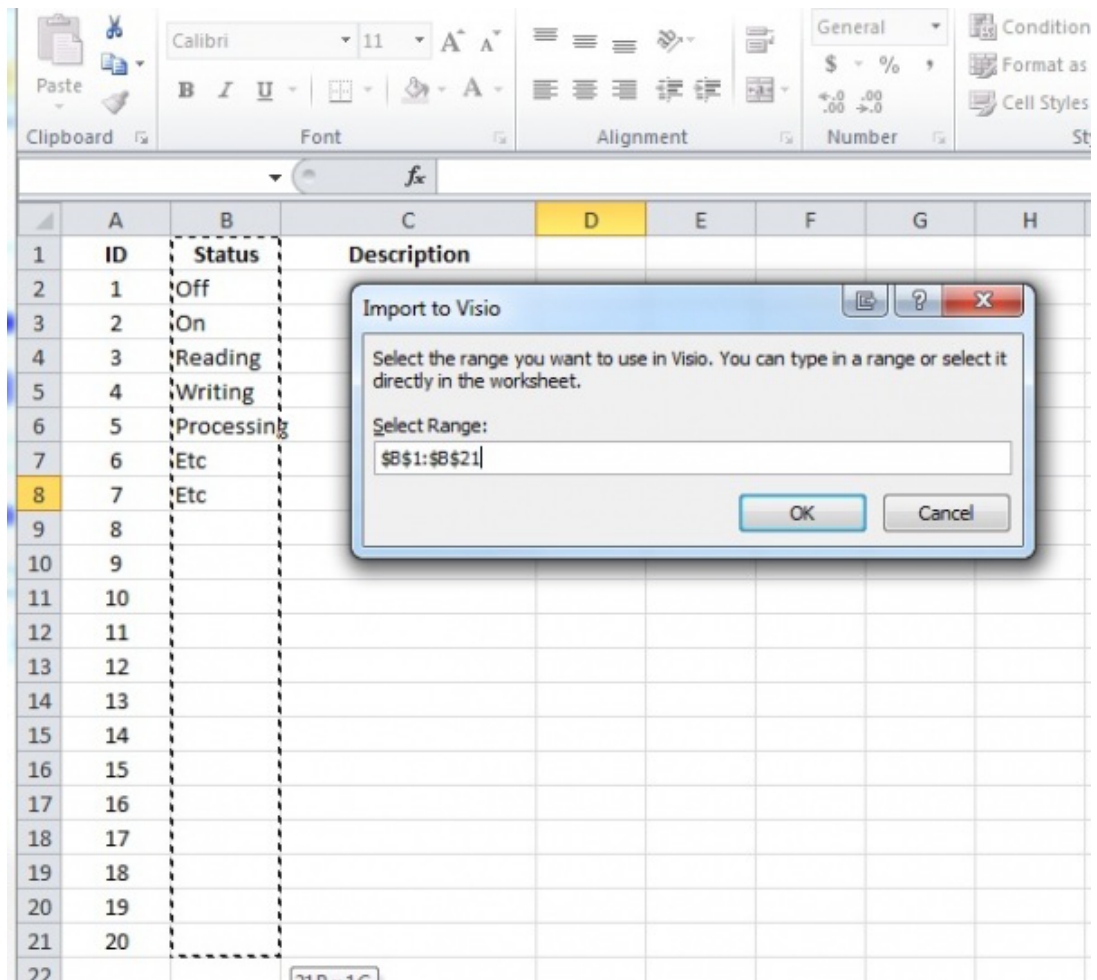
Then as your data source, select an 'Excel Worksheet' – remember you could use any of the listed data sources to achieve the same objective if that's easier. It might be a DB extract from a legacy system or a screen dump converted into a table or. Excel.xls



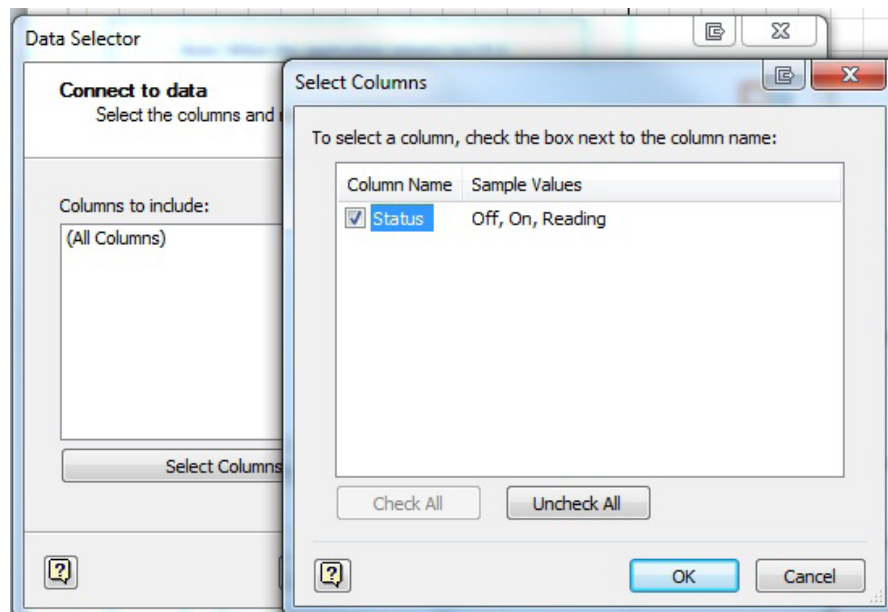
- Then choose the .xls (or .xlsx!) you wish to use as your data source.



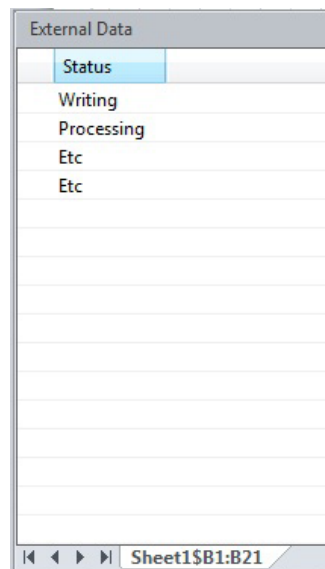
Now we have to select the range in the excel worksheet to use for our data. If you know the range go ahead and type it in, otherwise select 'Select range' and manually select the area you wish to use.



Once it's in we need to select the column(s) we are concerned with. it may be useful to include an identifier column in your data in case you have integrity issues when changing things later on.

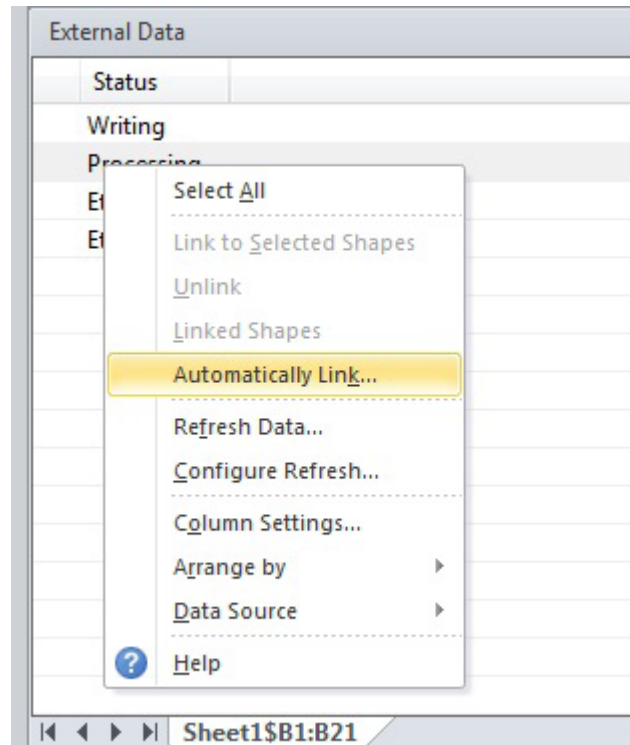


The next screen allows you to assign an identifier column (explained above). This is optional and useful if you plan on updating naming conventions and have a larger set of data. Select ok then 'Finish' to close the wizard.



If the import was successful you will see the 'External data' window appear with the columns you selected.

From here you can manually 'drag and drop' data onto shapes on your diagram to link, but I suggest using the handy auto-link feature handily provided by Visio 2010.

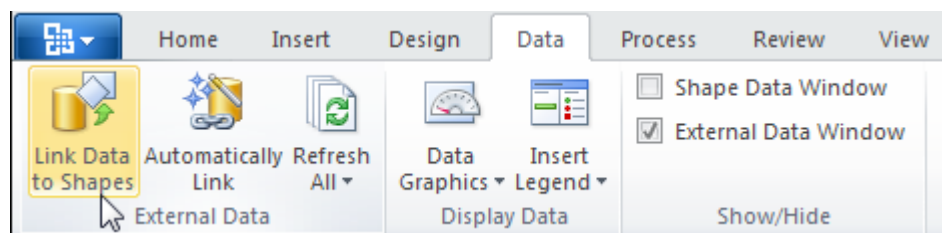


Assuming you named your shapes in a similar convention to the imported data, in my case it was naming system states and importing old state data, you will get a quick easy link between your source data and your shape elements. If this means tidying up your model and/or source data quickly first then it will probably save you time in the long run.

Data graphics

In Visio 2010, the data graphics feature has had a makeover to integrate it into the ribbon and to address feedback from users. also added is a legend feature.

As in Visio 2007, before you can display data using a data graphic, you first need to have some data in your shapes. You can add the data manually in the Shape Data Window for each shape, or you can import the data into the diagram from an external data source like an Excel worksheet or a SQL database, using the Link Data to Shapes button on the Data tab. The data will appear in the External Data Window.

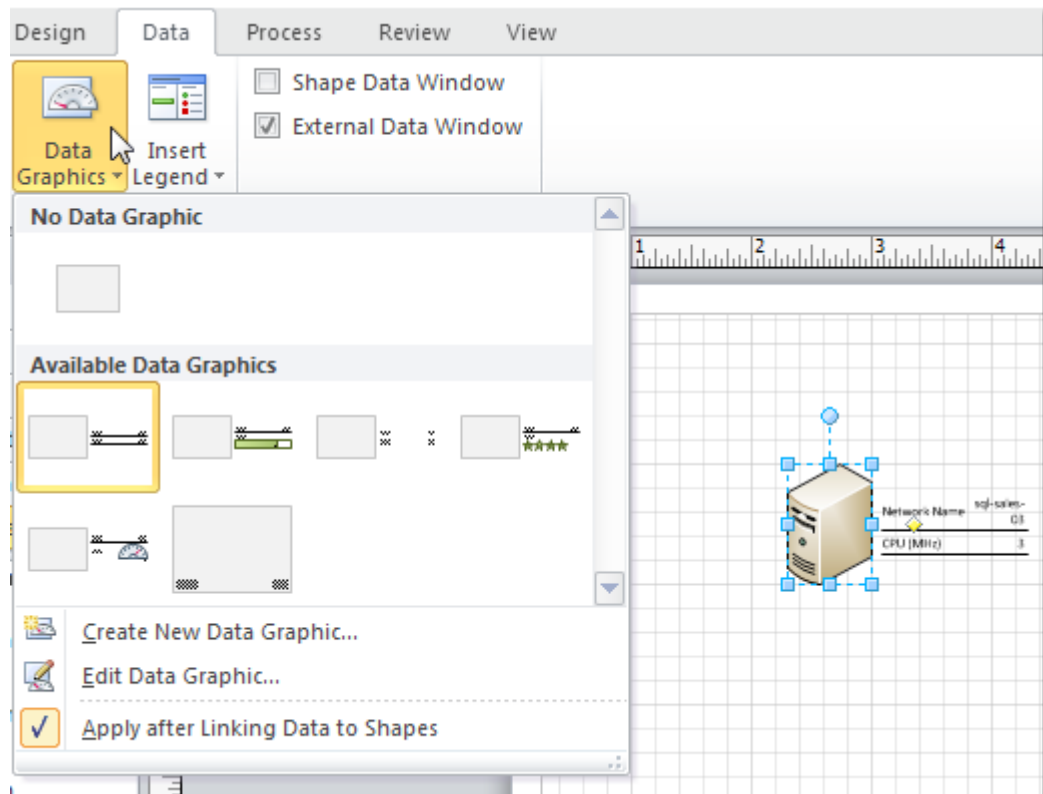


Once you drag a row of data from the External Data Window onto a shape to establish the link to the shape, a set of data graphics is created in the Data Graphics gallery, which replaces the task pane used in Visio 2007. The first data graphic in the gallery is automatically applied to the data-linked shape.

WHILE YOU WERE SLEEPING...

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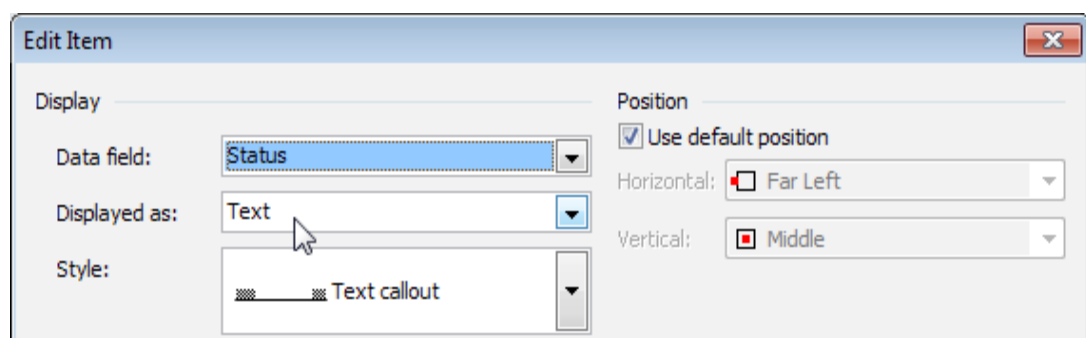
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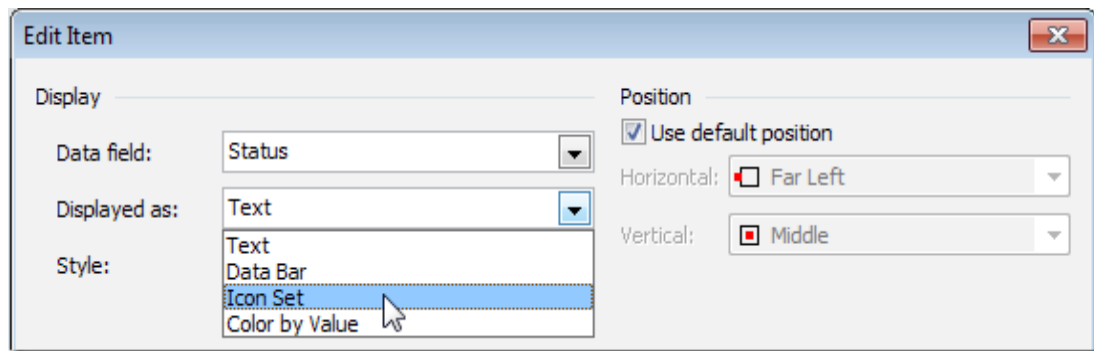
You can also create a new data graphic or edit one of the data graphics that Visio built for you in the gallery.

In addition to integrating the user interface into the ribbon, some improvements to the dialog boxes based on user feedback.

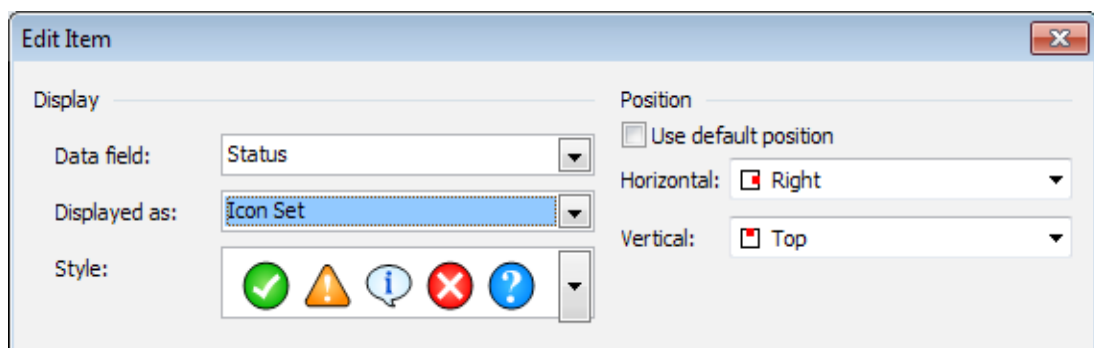
First, if you want to change the way a data field is displayed in the data graphic, you no longer have to delete the data field item and add a new one. For example, if you want to make an item display as an icon instead of a text callout, you can simply edit the item...



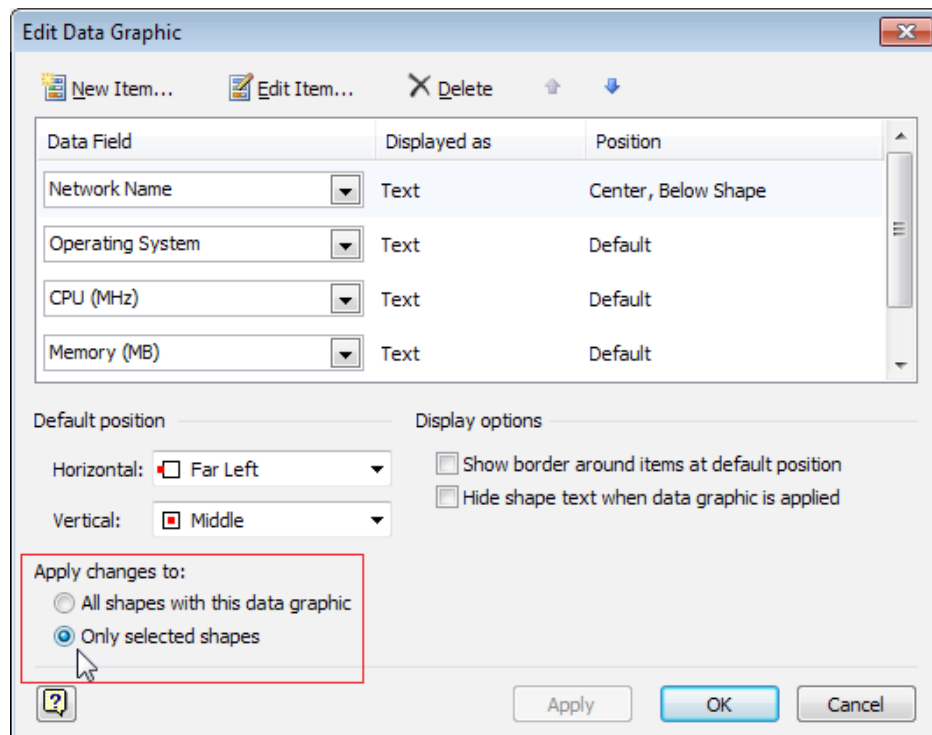
...and switch its display type from Text...



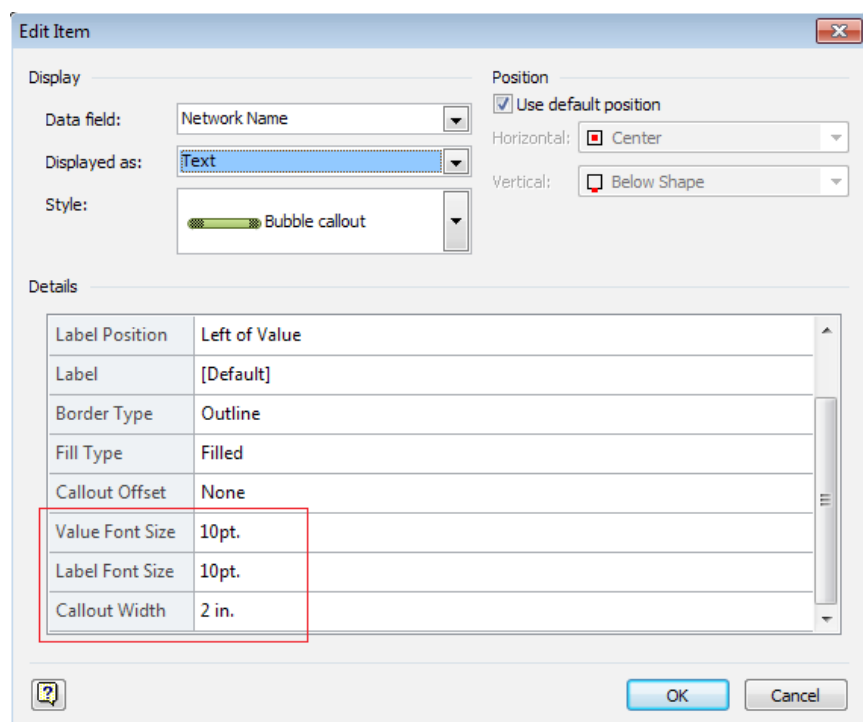
...to Icon Set.



When you edit a data graphic, you now have a choice between applying the changes to all shapes with that data graphic applied (the only option in Visio 2007) or only to the selected shapes, using radio buttons at the bottom of the Edit Data Graphic dialog box. The latter choice makes a copy of the data graphic and applies it to the selected shapes.



You now have more control over the formatting of text and other elements in data graphics. In Visio 2010, you can choose the font size used for the value and label in a text callout or data bar, and you can specify the width of the callout.



Using themes

The built-in themes apply both color formatting (font color, fill color) and shape effects (border style, shadow) to shapes. You can choose to change only the effects (border, shadow, font, and connector styles) or only the colors (text, line, connector, fill, and shadow colors) of the shapes in your drawing.



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Quick Tasks

Task	Action
Apply a theme to the shapes in your drawing	On the Design tab, in the Theme group, click the theme that you want or click  for more options.
Change the theme colors	On the Design tab, in the Theme group, click Colors, and select the color that you want.
Change the theme effects	On the Design tab, in the Theme group, click Effects, and select the effects that you want.
Create your own theme	<p>On the Design tab, in the Themes group, click Colors and select Create New Theme Colors.</p> <p>In the New Theme Colors dialog box, under General, in the Name box, type a new name that you want to use for your new theme.</p> <p>Select the colors that you want.</p> <p>Click Apply and then click OK.</p> <p>In the Themes group, click Effects and select Create New Theme Effects.</p> <p>On the General tab, in the Name box, type a new name that you want to use for your new theme.</p> <p>Select the font, line, fill, shadow, and connector settings that you want.</p> <p>Click Apply and then click OK.</p>
Remove a theme from a shape	On the Design tab, in the Theme group, click No Theme.

Working with containers and Lists

Containers

Containers are collections of shapes surrounded by a visible border.

Add containers

- Select the shapes you want to contain.
- On the **Insert** tab, in the **Diagram Parts** group, click **Container**.
- Hold the pointer over the container styles to see a preview of the container on the page.
- Click to insert the container.
- With the container selected, type the heading for the collection of shapes.



If no shapes are selected when you insert a container, the container is added at the middle of the current view. It does not actually contain any shapes, even if it looks like shapes are inside it. Those shapes are just in the same place, but the container doesn't contain them.

Behavior of contained shapes

Contained shapes have a specific relationship with the container, and are affected by actions that are performed on the container:

Moving a container moves the contained shapes with it.

Copying a container copies the contained shapes also.

Deleting a container deletes the contained shapes.

Add shapes to a container

You add shapes to a container by dropping them inside the container. You can tell a shape is contained by selecting it – the container glows with a slight yellow/orange highlight while contained shapes are selected.

If the container is not highlighted when a shape inside it is selected, move the shape a little inside the container; this has the same effect as dropping the shape on. You can also right-click the shape, point to **Container**, and then click **Add to Underlying Container**.

You can also attach shapes to the edges of containers. When you hold a shape over the edge, the yellow/orange highlight appears on just that edge. After you drop the shape, it stays on the edge while you move or resize the container.



Format a container

While the container is selected, a Container Tools tab named **Format** is available on the Ribbon. This tab contains commands to customize the look and behaviour of the container.

Set margins and automatic resizing.

Enhance the style.

Specify membership commands.

Lock Container makes it so shapes cannot be added to the selected container or deleted from it. However, shapes can still be moved around inside the container. Also, shapes can be dropped onto the container, but they do not become contained.

Select Contents simply selects all the contained shapes.

Disband Container deletes the selected container but leaves the shapes that it contained. (If you select a container and press **DELETE**, the contained shapes are deleted too.)

In addition, you can use the formatting commands on the **Home** tab. For example, you can control the position of the container heading text by using the paragraph alignment commands.

Lists

Lists are special kinds of containers – any item you add to a list is automatically arranged in a sequence.

Unlike containers, there are no general-purpose lists that you can add to a diagram. Instead, some shapes have list behavior for special uses. Examples include swim lane shapes in cross-functional flowcharts, legend shapes for data graphics, and control shapes such as list box in the wireframe template.

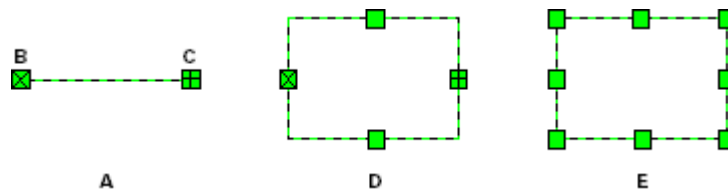
You can reorder items in lists by dragging them to new positions, and add items by clicking the list insertion arrow.

1d shapes 2d shapes

How 1-D and 2-D Shapes Differ

When the size or length of a line shape is less important than the connection it represents, create a 1-D shape. Because 1-D shapes are often used to connect other shapes, they are often called connectors. For example, in a flowchart, circuit diagram, or mechanical illustration, 1-D shapes can be used to connect other components. However, not all 1-D shapes are connectors. Some behave as lines, such as callouts or dimension lines, or are simply easier to work with as 1-D shapes, such as the wedge of a pie chart.

Most shapes when you first draw them are 2-D. Their width-height boxes have eight handles for resizing. When you draw a single arc or line, however, the result is a 1-D shape that has handles for begin and end points and for height adjustment. Not only do 1-D and 2-D shapes look different, they behave differently on the drawing page.



Selection handles on 1-D and 2-D shapes

- a) 1-D shape
- b) Begin point
- c) End point
- d) 2-D shape converted to 1-D
- e) 2-D shape

When a user drags a 2-D shape onto the drawing page, the outline of its alignment box appears rectangular. When a user drags a 1-D shape onto the drawing page, its alignment box appears as a straight line. This can make the 1-D shape easier for users to align, as with a 1-D wall shape in a space plan.

Two of the 1-D shape's handles have a special purpose. The starting vertex of a 1-D shape is its *begin point*, and the handle that represents the end of the line formed by the shape is the *end point*.

You can glue the begin or end point of a 1-D shape to a guide, guide point, connection point, shape vertex, or selection handle. If you glue one end, the other end stays anchored on the page, and the 1-D shape stretches as the glued end moves with the shape to which it is glued.

Converting 1-D and 2-D Shapes

A shape that looks like a box can behave like a line, because you can convert a 2-D shape to 1-D and vice versa. Converting a shape in this way dramatically changes the sections it displays in the ShapeSheet window.

A key difference between a 1-D and 2-D shape is that a 1-D shape includes the 1-D Endpoints section in its ShapeSheet window; a 2-D shape does not have this section. Converting a 2-D shape to 1-D adds this section and its default formulas. Converting a 1-D shape to 2-D removes this section, regardless of any protection (including GUARD functions) you might have set.

When you convert a 2-D shape to a 1-D shape, the Alignment section is deleted, and the formulas in the Shape Transform section's Width, Angle, PinX, and PinY cells are replaced with default 1-D formulas. Converting a shape does not remove its connection points, but its connections to other shapes or guides are broken.

The advertisement for Gaiteye features a background image of a person running on a path during a sunrise or sunset. The Gaiteye logo, consisting of a stylized yellow 'G' and the brand name, is in the upper left. Below it is the tagline 'Challenge the way we run'. In the center-left, the text 'EXPERIENCE THE POWER OF FULL ENGAGEMENT...' is displayed above a horizontal dotted line. To the left of the runner's feet, the text 'RUN FASTER. RUN LONGER.. RUN EASIER...' is shown. On the right, near the runner's feet, there are technical diagrams including a circle with a horizontal line through its center and a vertical line, and a line with an arc indicating an angle. A yellow button with the text 'READ MORE & PRE-ORDER TODAY' and 'WWW.GAITEYE.COM' is located at the bottom right, with a hand cursor icon pointing at it.



To convert a shape between 1-D and 2-D

1. Select the shape.
2. On the **Developer Tab**, click **Behavior**.
3. Under **Interaction style**, select **Line (1-dimensional)** to specify a 1-D shape. Select **Box (2-dimensional)** to specify a 2-D shape.
4. Click **OK**.

Visio modifies the shape and adjusts the alignment box according to the behavior you chose.

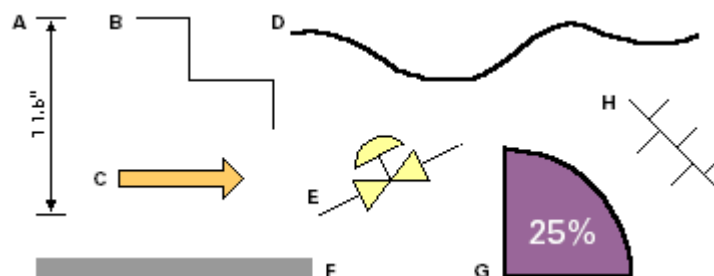
Note One way to create a 1-D shape is to draw the shape as a 2-D shape, convert it to 1-D, and then adjust the vertices and defines custom formulas. You can save time and effort when you initially draw the shape by orienting it horizontally—that is, by dragging left to right or right to left in the direction you want the line to go. Visio places 1-D endpoints on the left and right sides of the shape you draw, so a horizontally drawn shape will be closer to what you want after it is converted to 1-D.

Examples of 1-D Shapes

1-D shapes can vary greatly in their appearance and functionality. A 1-D shape might look like a line, or might appear to be a 2-D shape. However, as a 1-D shape, you can take advantage of its endpoints. By adding custom formulas, you can make the shape behave intelligently when the user drops it on the page, such as a window snapping into place on a wall in an office layout.

However, not all 1-D shapes require special formulas to be useful. Because a 1-D shape looks like a line as it is being dragged, it can be faster to position in a drawing. Consider using 1-D shapes whenever you want to create masters that your users will align precisely in a drawing. For example, a text callout or annotation shape is easier to position accurately if users can see exactly where the line will point.

The 1-D shapes shown in the following illustrations have custom formulas that create smart behavior.



Examples of 1-D shapes

- a) Vertical dimension line
- b) S-connector
- c) Arrow
- d) Drip line
- e) Diaphragm valve
- f) Wall
- g) Pie wedge
- h) Bus

The formulas for the S-connector keep the connector right-side up. As its endpoints are moved, the shape resizes in a way that keeps it upright by stretching its horizontal or vertical segments.

The formulas for the diaphragm valve shape give it height-based resizing behavior. As a user moves an endpoint the line stretches, but the middle details remain the same size. If a user increases the shape's height, the middle details resize proportionately, but the line does not change.

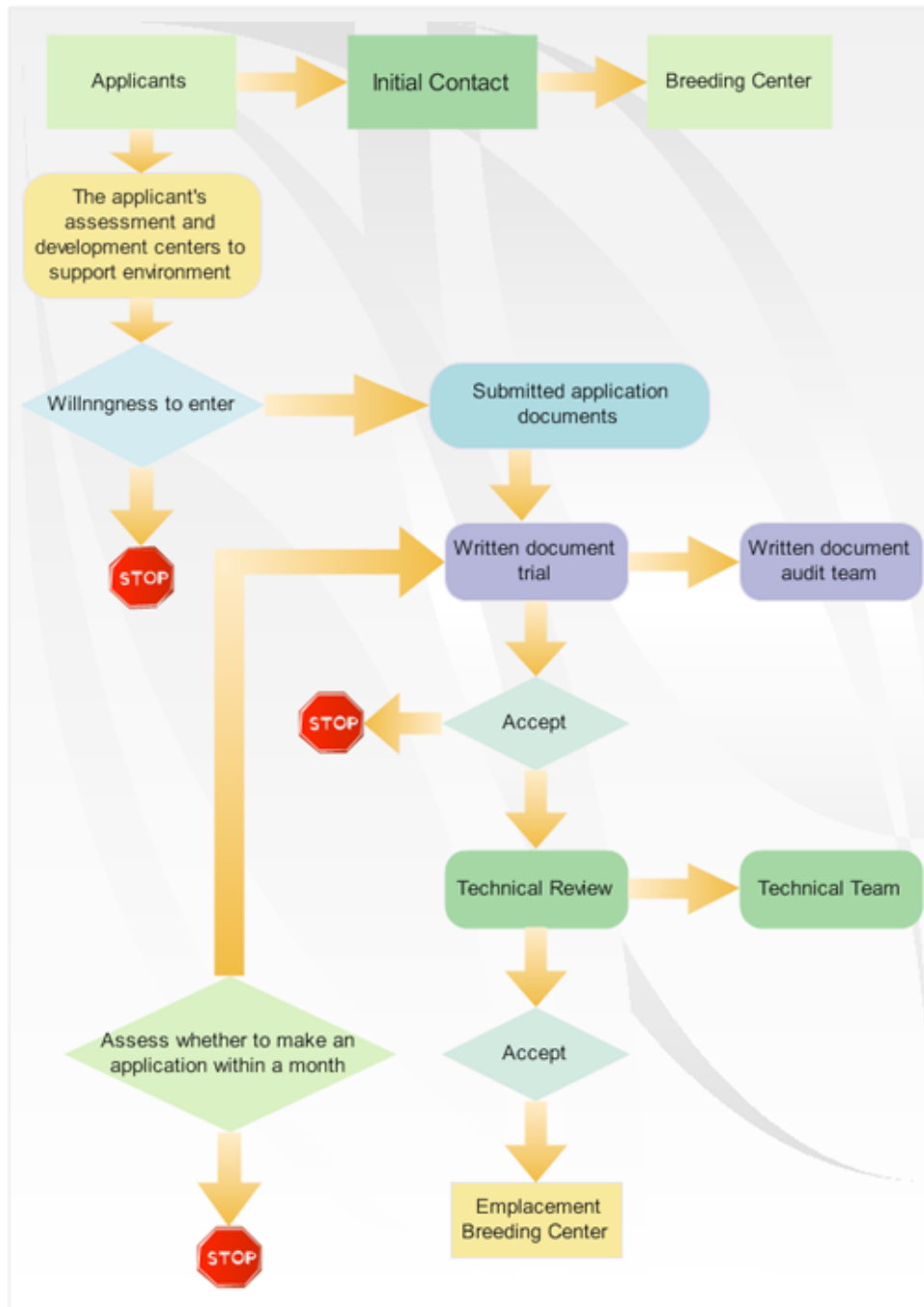
The arrow shape shown in the illustration could also be a 2-D shape. Whether such a shape should act like a line or a box depends on how it will be used:

If you intend the arrow to be used in an up-down, left-right manner only, then making it a 2-D shape can make horizontal and vertical positioning easier. In addition, 2-D shapes must be rotated using the **Rotation** tool, whereas it is very easy to accidentally change the angle of a 1-D shape by nudging one of its endpoints. However, to allow the arrow shape to connect other shapes through the Visio user interface (rather than programmatically), it must either be a 1-D shape or have an outward connection point. For details about outward connection

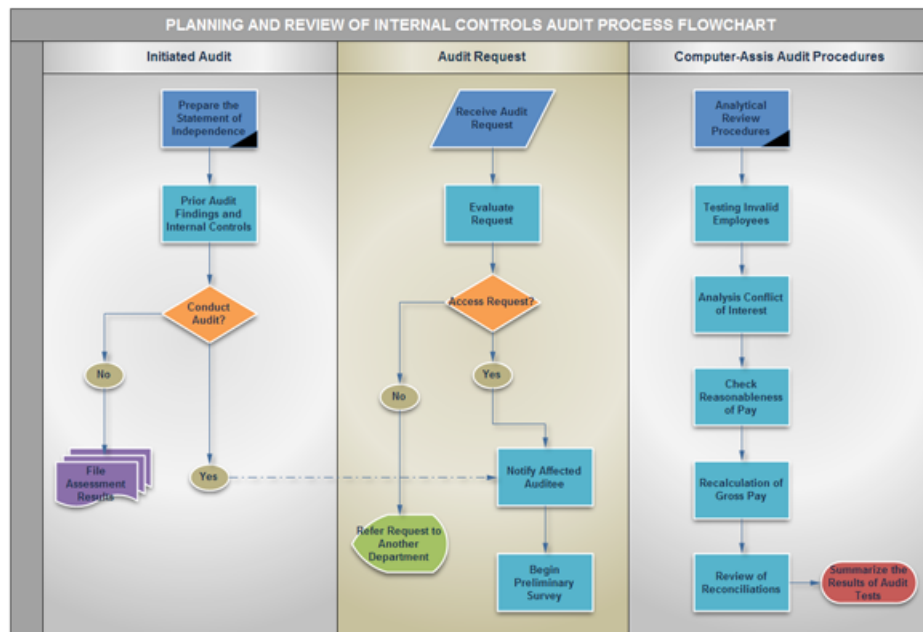
Basic Drawings Exercise Examples

In this section you will be presented with a series of step by step examples to re-enforce your Visio Skills.

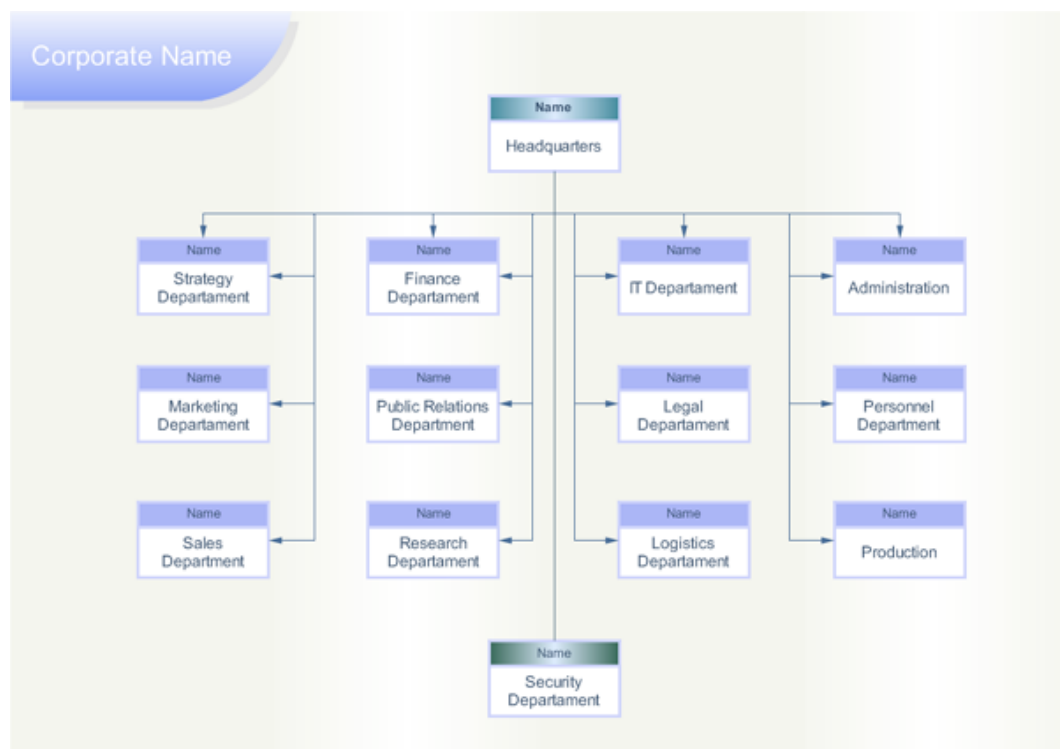
Process Chart



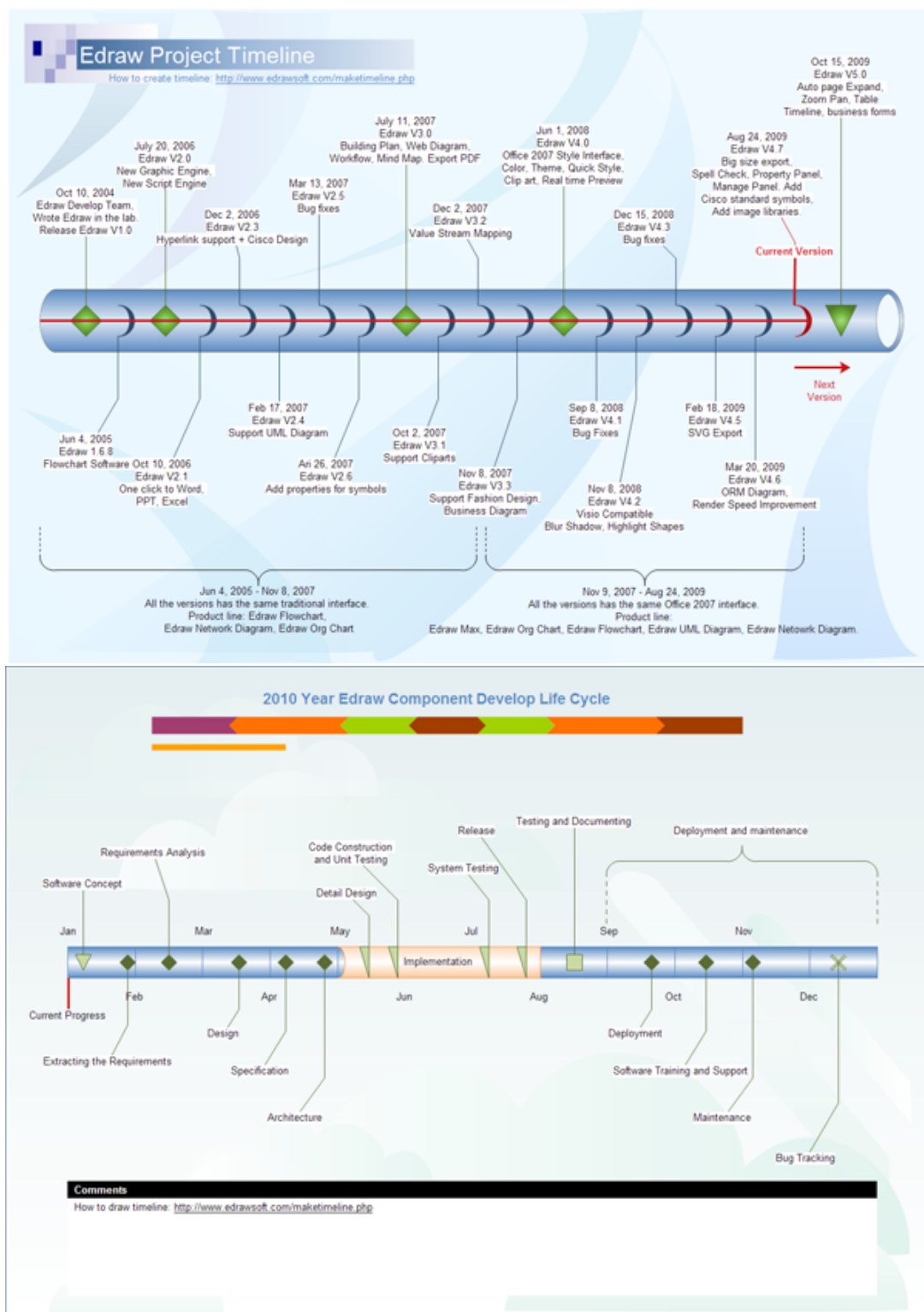
Cross functional Charts



Org Charts

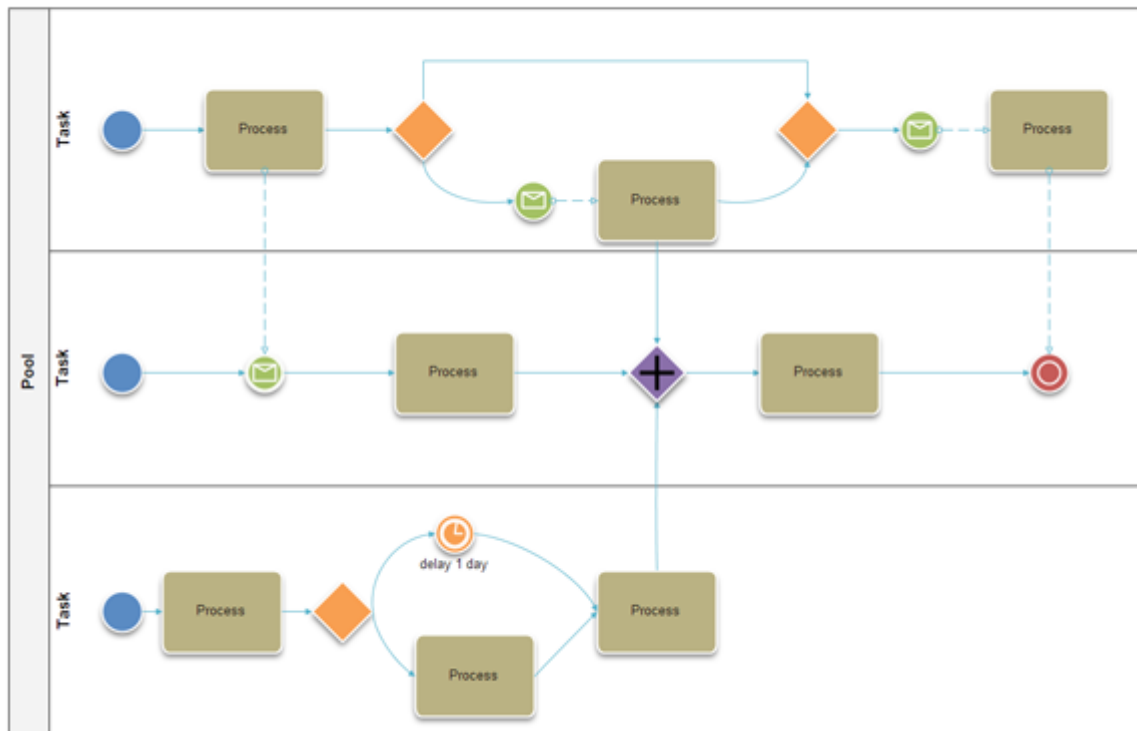


Time Line



BPMN

Business Process Modeling Notation Diagram



Strømmen produseres ofte langt fra der den skal brukes.

Statnett sitt oppdrag er å gjøre strømmen tilgjengelig, uansett hvor i dette langstrakte landet du bor. Det er vi som bygger og drifter "riksveiene" i norsk strømforsyning. Gjennom vårt landsdekkende nett sørger vi for en sikker fordeling av strøm mellom nord, sør, øst og vest.

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BPMN support in Visio 2010



[Visio Team](#)

3 Dec 2009 1:23 PM

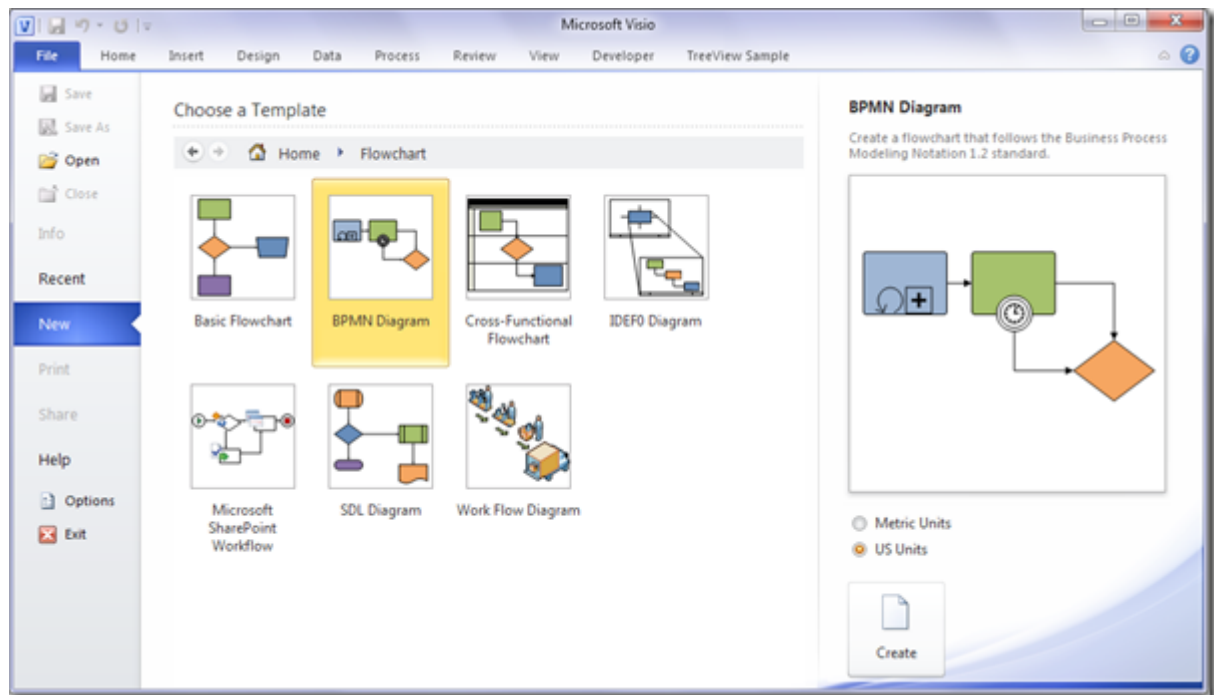
- Comments [15](#)

[Business Process Modeling Notation \(BPMN\)](#) is a standard maintained by the [Object Management Group](#) which gives businesses the ability to understand their business processes using a graphical notation and to communicate these processes in a uniform manner. The basic BPMN shapes are similar to traditional flowcharting shapes, which makes modeling in BPMN easy for new users. For advanced users, the BPMN standard contains a large number of detailed shapes—more specialized versions of the basic shapes—which are useful when modeling complex interactions or precise behaviors within a process.

Companies have told us that they would like to enforce a standardized notation, like BPMN, within their organization to ensure that processes are graphically expressed in a consistent manner. Based on this feedback, we introduced the following support for BPMN in Visio 2010.

- We support all shapes defined in the BPMN 1.2 standard.
- Our BPMN shapes have associated element attributes, as specified by the standard.
- Using [Diagram Validation](#), a user can check the visual correctness of a diagram against logical rules specified in the standard.

You can find the **BPMN Diagram** template under the **Flowchart** category on the **New** tab of the [Backstage View](#).

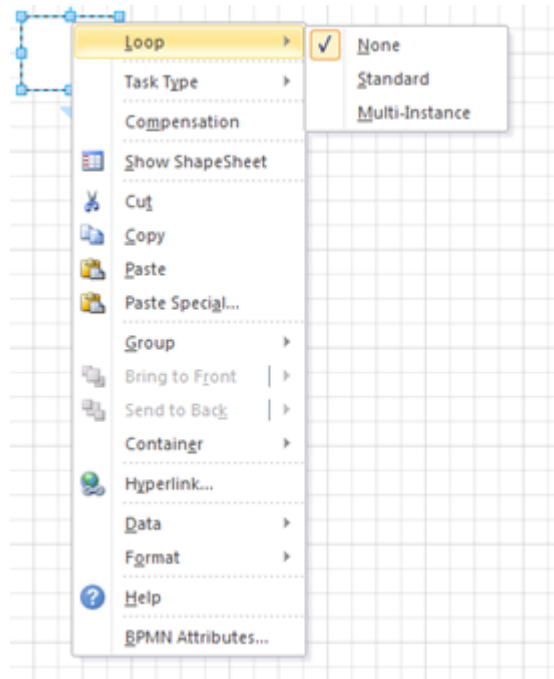


The **BPMN Diagram** template contains five stencils of BPMN shapes: the **BPMN Basic Shapes**, **BPMN Events**, **BPMN Activities**, **BPMN Gateways** and **BPMN Connecting Objects** stencils.

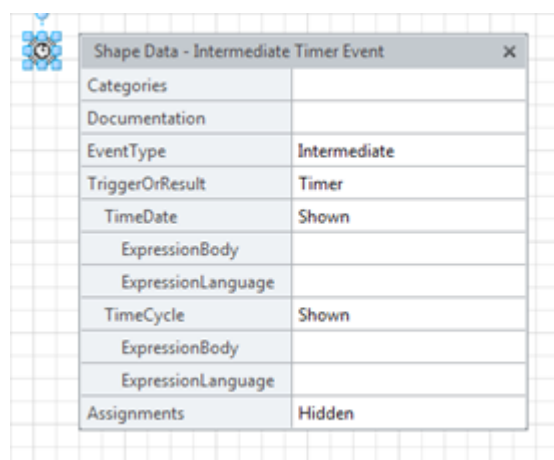
	BPMN Basic Shapes (US units)	BPMN Basic Shapes (US units)	BPMN Basic Shapes (US units)	BPMN Basic Shapes (US units)
	BPMN Events (US units)	BPMN Events (US units)	BPMN Events (US units)	BPMN Events (US units)
	BPMN Activities (US units)	BPMN Activities (US units)	BPMN Activities (US units)	BPMN Activities (US units)
	BPMN Gateways (US units)	BPMN Gateways (US units)	BPMN Gateways (US units)	BPMN Gateways (US units)
	BPMN Connecting Objects (US units)	BPMN Connecting Objects (US units)	BPMN Connecting Objects (US units)	BPMN Connecting Objects (US units)
	BPMN Events (US units)	BPMN Activities (US units)	BPMN Gateways (US units)	BPMN Connecting Objects
eway	Start Event	Task	Exclusive Data Gateway	Sequence Flow
I Event	End Event	Collapsed Sub-Process	Exclusive Data Gateway...	Association
lapsed	Start Message Event	Expanded Sub-Process	Exclusive Event ...	Sequence Flow (Cond...
quence	End Message Event	Standard Loop Task	Parallel Gateway	Association (One Dire...
n	Start Timer Event	Compensat... Task	Inclusive Gateway	
ocation	Intermediate Error Event	Multi-Insta... Loop Task	Complex Gateway	
il / Lane	End Error Event	Standard Loop C...		
up	Intermediate Cancel Event	Compensat... Loop Colla...		
	End Cancel Event	Ad-Hoc Collapsed ...		
	Intermediate (Throwing...	Transaction Collapsed...		
	End Timer Event	Standard Loop Ex...		
	Intermediate Compensat...	Compensat... Expanded S...		
	Start Condition...	Multi-Insta... Loop Expa...		
	Intermediate Link Event	Ad-Hoc Expanded ...		
	Intermediate (Throwing...	Transaction Expanded...		
	Start Signal Event			
	Intermediate Signal Event			
	End Signal Event			
	Start Multiple Event			
	Intermediate Multiple E...			
	Intermediate (Throwing...			
	End Multiple Event			

For new BPMN users, all the basic BPMN shapes are located on the **BPMN Basic Shapes** stencil. For more advanced users, additional BPMN shapes can be derived from the basic shapes or taken from the other BPMN stencils.

You can derive a more specialized shape from a basic shape by right-clicking on the shape. The menu below shows how you would change a **Task** to a **Standard Loop Task** or a **Multi-Instance Loop Task**. Each of these shapes have different graphical symbols to distinguish them and different BPMN properties, or attributes, associated with them.



Notice the **BPMN Attributes...** option located at the bottom of the above menu. This option launches the **Shape Data** window which displays the shape's BPMN attributes, properties specified by the BPMN standard. This gives advanced BPMN users to option to edit the complete set of BPMN attributes associated with a shape.

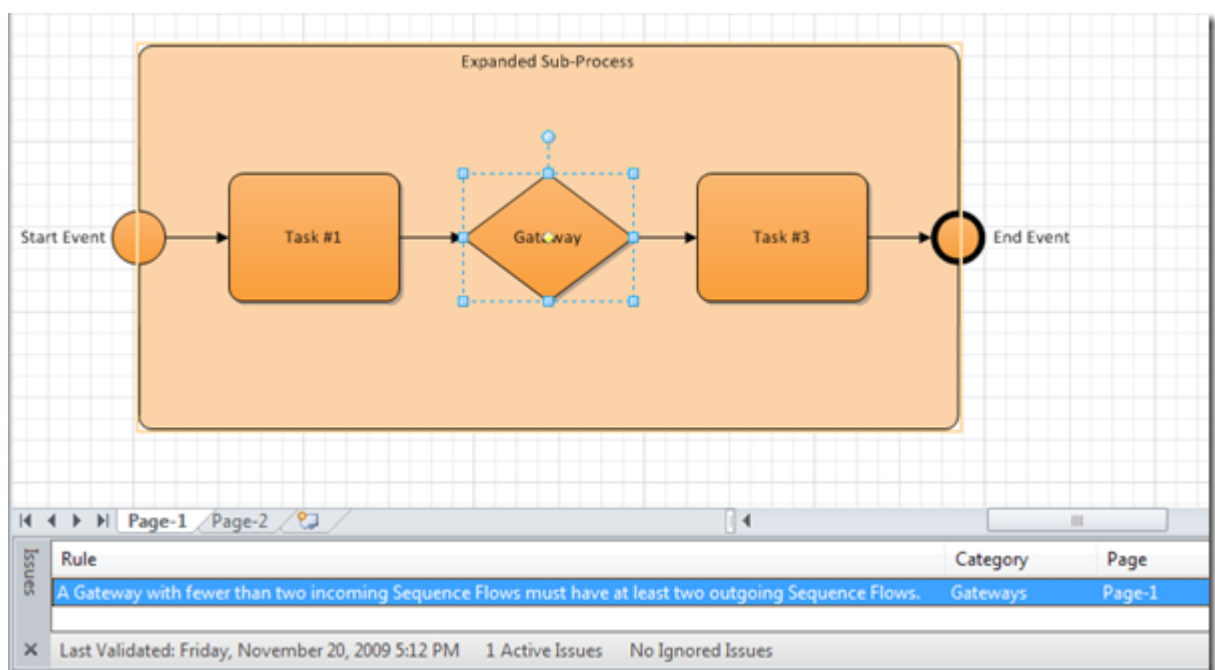


The **BPMN Diagram** template and shapes take advantage of many of the new Visio 2010 features. You will notice that the ease of use and flowcharting improvements in Visio 2010 make it easy to build visually-appealing BPMN diagrams. Below, we focus on some of the other Visio 2010 features that you will encounter when using the BPMN template and shapes.

Diagram Validation

The BPMN standard contains a large number of rules about the visual, structural and semantic properties of a diagram: these rules must be satisfied in order to comply with the standard. The standard documentation is long and it is hard for new users to understand its intricacies. We use [Diagram Validation](#) to help users ensure that their BPMN diagrams are visually conformant with the standard.

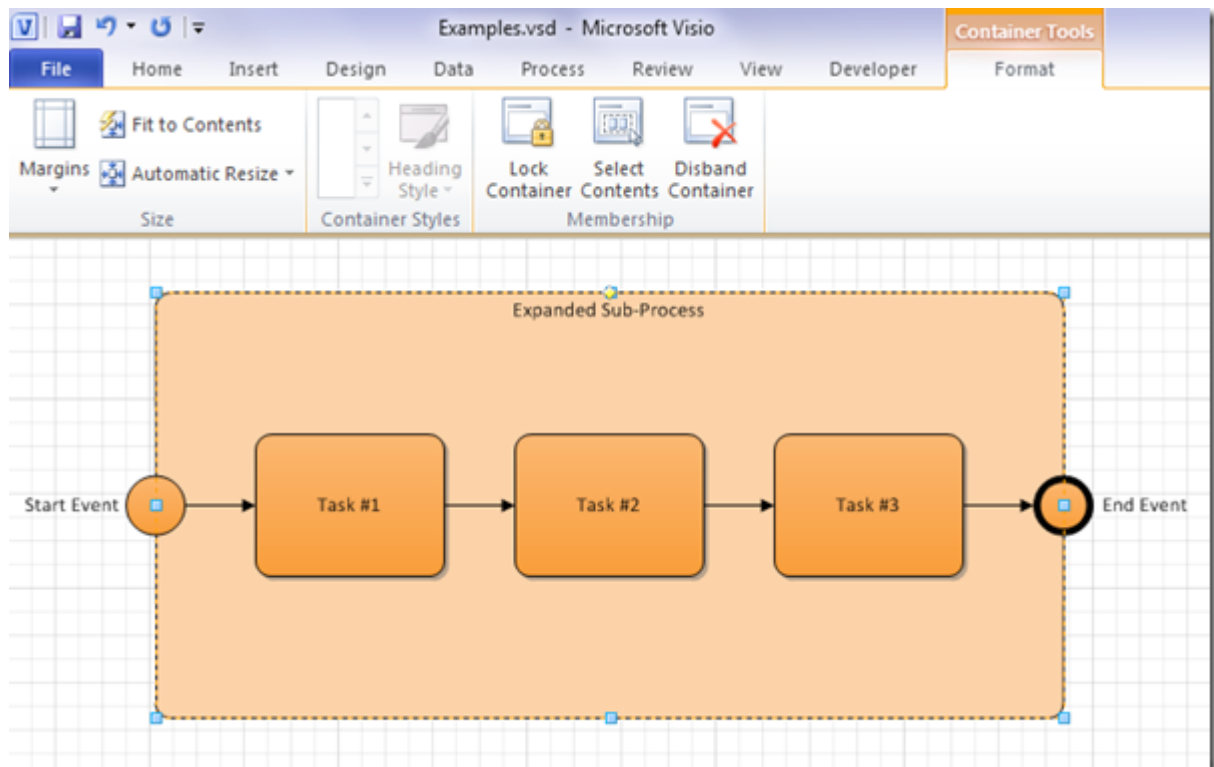
The **BPMN Diagram** template includes validation rules based on the BPMN 1.2 standard. This means that you can use the **Check Diagram** button on the **Process** tab to check for visual issues with your BPMN diagram. After you validate your diagram, any issues are listed in an **Issues** window.



To easily find shapes with issues, you can click on an issue and the corresponding shape will be selected. Once you fix the issues, you can check the diagram again to confirm that there are no longer any problems. This makes it much easier to create a BPMN-compliant diagram.

Containers

Expanded Sub-Process and **Group** shapes in the BPMN template are [Containers](#). This means you can take advantage of all the built-in container logic. For example, when you move an Expanded Sub-Process, all the member shapes move automatically. In addition, when you select an **Expanded Sub-Process** or **Group**, you see the containers contextual tab, which gives you the ability to further customize these shapes.



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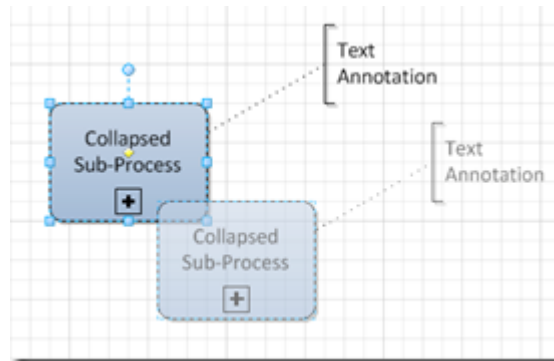
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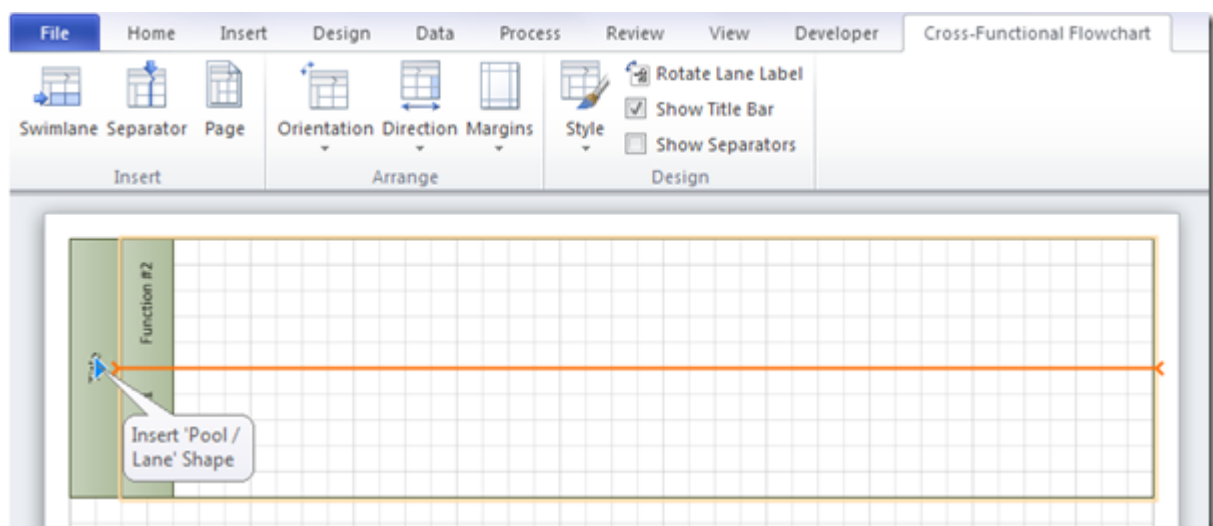
Callouts

The **Text Annotation** shape in the BPMN template is a [Callout](#). A callout points at or references another shape, which we call the “target” of the callout. When a target shape is moved, copied or deleted, any callouts attached to the shape will be moved, copied or deleted too. Thus callouts stay with their target shapes, though you can reposition the callout to any offset from its target.



Cross-functional Flowcharts

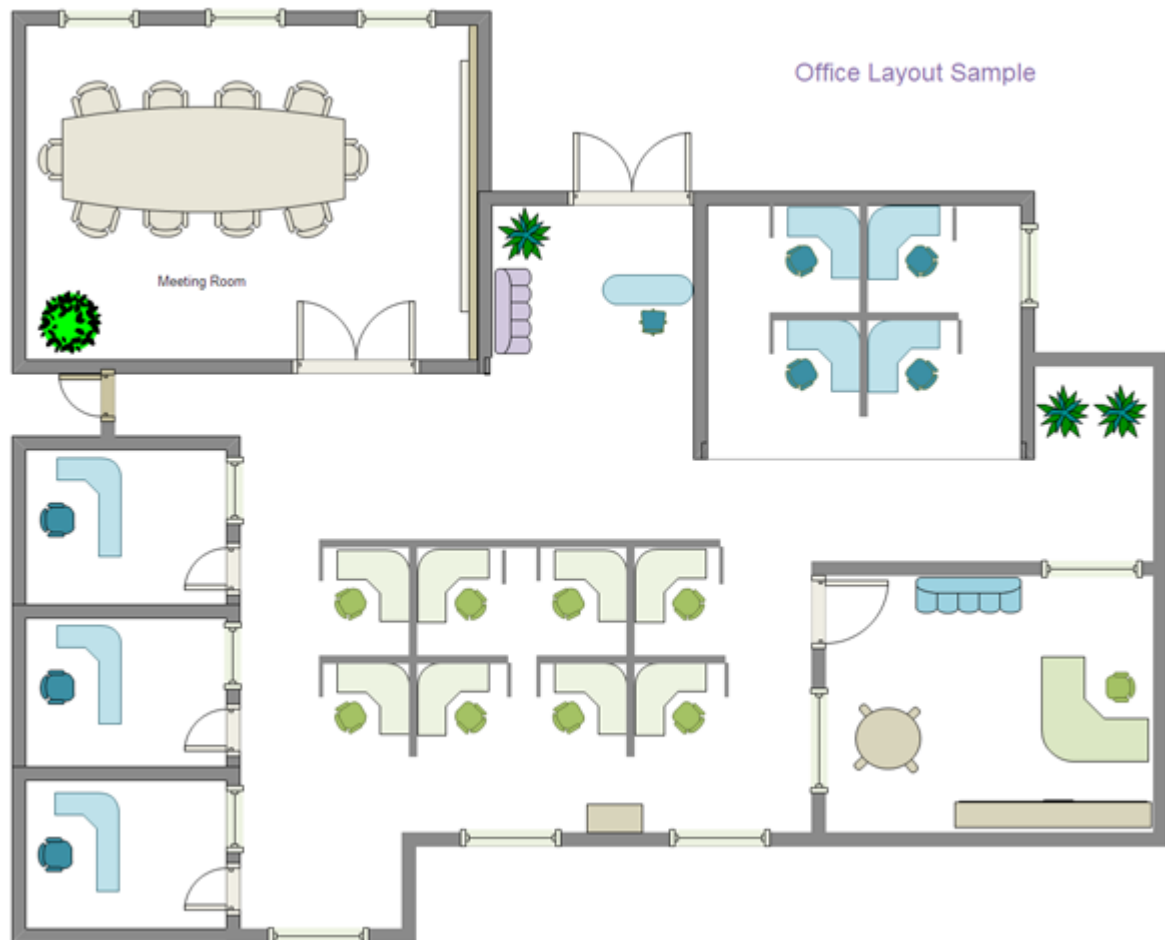
The **Pool /Lane** shape in the BPMN template allows you to add a Pool or Lane shape to your diagram. This shape is based on our [Cross-functional Flowchart](#) (CFF) shape, which means that Pools and Lanes are easy to manipulate using CFF functionality. For example, to add more lanes, you can mouse along the edge of the cross-functional flowchart to where you want to add the lane and a blue arrow will appear. Click on the blue arrow and voila, you have a new lane!











The BPMN template combines a large number of new Visio 2010 features to make building BPMN-compliant diagrams easier. Both new and advanced BPMN users will benefit from the depth of functionality available while using this template.







We are interested in your feedback on the new BPMN functionality. You can use the [Send a Smile feedback tool](#) or comment on the blog to let us know what you think.











Floor Plan








Common used Symbol Definitions

Symbol	Symbol Name (alias)	Symbol Description
Process / Operation Symbols		
	Process	Show a Process or action step. This is the most common symbol in both process flowcharts and business process maps.
	Predefined Process (Subroutine)	A Predefined Process symbol is a marker for another process step or series of process flow steps that are formally defined elsewhere. This shape commonly depicts sub-processes (or subroutines in programming flowcharts). If the sub-process is considered “known” but not actually defined in a process procedure, work instruction, or some other process flowchart or documentation, then it is best not to use this symbol since it implies a formally defined process.
	Alternate Process	As the shape name suggests, this flowchart symbol is used when the process flow step is an alternate to the normal process step. Flow lines into an alternate process flow step are typically dashed.
	Delay	The Delay flowchart symbol depicts any waiting period that is part of a process. Delay shapes are common in process mapping.
	Preparation	As the names states, any process step that is a Preparation process flow step, such as a set-up operation.
	Manual Operation	Manual Operations flowchart shapes show which process steps are not automated. In data processing flowcharts, this data flow shape indicates a looping operation along with a loop limit symbol (which is not supported by Microsoft Office, but a Manual Operation symbol rotated 180° will do the trick.)
Branching and Control of Flow Symbols		
	Flow Line (Arrow, Connector)	Flow line connectors show the direction that the process flows.
	Terminator (Terminal Point, Oval)	Terminators show the start and stop points in a process. When used as a Start symbol, terminators depict a <i>trigger action</i> that sets the process flow into motion.

	Decision	Indicates a question or branch in the process flow. Typically, a Decision flowchart shape is used when there are 2 options (Yes/No, No/No-Go, etc.)
	Connector (Inspection)	<p>Flowchart: In flowcharts, this symbol is typically small and is used as a Connector to show a jump from one point in the process flow to another. Connectors are usually labeled with capital letters (A, B, AA) to show matching jump points. They are handy for avoiding flow lines that cross other shapes and flow lines. They are also handy for jumping to and from a sub-processes defined in a separate area than the main flowchart.</p> <p>Process Mapping: In process maps, this symbol is full sized and shows an Inspection point in the process flow.</p> <p><i>[Just to confuse things further, some people will use a circle to indicate an operation and a square to indicate an inspection. That's why it's important to include a symbol key in the flowchart.]</i></p>
	Off-Page Connector	Off-Page Connector shows continuation of a process flowchart onto another page. When using them in conjunction with Connectors, it's best to differentiate the labels, e.g. use numbers for Off-Page Connectors and capital letters for Connectors. In actual practice, most flowcharts just use the Connect shape for both on-page and off-page references.
	Merge (Storage)	<p>Flowchart: Shows the merging of multiple processes or information into one.</p> <p>Process Mapping: commonly indicates storage of raw materials.</p>
	Extract (Measurement)	<p>Flowchart: Shows when a process splits into parallel paths. Also commonly indicates a Measurement, with a capital 'M' inside the symbol.</p> <p>Process Mapping: commonly indicates storage of finished goods.</p>
	Or	The logical Or symbol shows when a process diverges - usually for more than 2 branches. When using this symbol, it is important to label the out-going flow lines to indicate the criteria to follow each branch.

	Summing Junction	The logical Summing Junction flowchart shape is shown when multiple branches converge into a single process. The merge symbol is more common for this use, though. This symbol and the Or symbol are really more relevant in data processing flow diagrams than in process flowcharts.
Input and Output Symbols		
	Data (I/O)	The Data flowchart shape indicates inputs to and outputs from a process. As such, the shape is more often referred to as an I/O shape than a Data shape.
	Document	Pretty self explanatory - the Document flowchart symbol is for a process step that produces a document.
	Multi-Document	Same as Document, except, well, multiple documents. This shape is not as commonly used as the Document flowchart shape, even when multiple documents are implied.
	Display	Indicates a process step where information is displayed to a person (e.g., PC user, machine operator).
	Manual Input	Manual Input flowchart shapes show process steps where the operator/ user is prompted for information that must be manually input into a system.
	Card	This is the companion to the punched tape flowchart shapes. This shape is seldom used.
	Punched Tape	If you're very good at stretching all the life out of a machine, you may still have use for the Punched Tape symbol - used for input into old computers and CNC machines.
File and Information Storage Symbols		
	Stored Data	A general Data Storage flowchart shape used for any process step that stores data (as opposed to the more specific shapes to follow next in this table).
	Magnetic Disk (Database)	The most universally recognizable symbol for a data storage location, this flowchart shape depicts a database.

	Direct Access Storage	Direct Access Storage is a fancy way of saying Hard Drive.
	Internal Storage	Used in programming flowcharts to mean information stored in memory, as opposed to on a file.
	Sequential Access Storage (Magnetic Tape)	Although it looks like a 'Q', the symbol is supposed to look like a reel of tape.
Data Processing Symbols		
	Collate	The Collate flowchart shape indicates a process step that requires organizing data, information, or materials according into a standard format or arrangement.
	Sort	Indicates the sorting of data, information, materials into some pre-defined order



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Appendix

Changes in Microsoft Visio 2010 - What's new

This section highlights new features in Visio 2010.

The Visio 2010 user interface is redesigned and now uses the Microsoft Office Fluent user interface (UI). First introduced in the 2007 Microsoft Office system.

Changes in Microsoft Visio 2010 - The ribbon

The ribbon, part of the Fluent UI, was designed to optimize key Visio design scenarios to make them easier to use. The ribbon provides quicker access to all the commands in Visio 2010 and allows for easier future additions and customizations. You can also customize the ribbon. For example, you can create custom tabs and custom groups to contain frequently used commands. To help maximize the editing of your presentation space on the page, the ribbon can also be hidden while you write

Changes in Microsoft Visio 2010 - Backstage view

The Microsoft Office Backstage is part of the Fluent UI and a companion feature to the ribbon. The Backstage view, which can be accessed from the File tab, helps you find frequently used features for managing your Visio drawings. (The File tab replaces the Microsoft Office Button and File menu that were used in earlier release of Microsoft Office.) The Backstage view is used to manage files and the data about the files, such as creating and saving files, inspecting for hidden metadata or personal information, and setting file options.

Changes in Microsoft Visio 2010 - ShapeSheet IntelliSense

If you are new to ShapeSheet formulas in Visio, they are similar to the formulas in Excel, except you can use them to program and recalculate shapes. A ShapeSheet spreadsheet stores information for every Visio shape. Within a ShapeSheet, formulas from previous versions of Visio are still valid.

The IntelliSense is new to Visio 2010. This feature does an automatic lookup and auto-complete for formulas. Some of the benefits that ShapeSheet IntelliSense are as follows:

Keyword lookup	Keyword auto-complete
Keyword definition pop-up	Function signature hints pop-up
Parenthesis matching	Multi-line formula input for developers
Supports local and cross-sheet references	Changes in Microsoft Visio 2010 - What's changed

Changes in Microsoft Visio 2010 - Status bar

The following status items are removed from the status bar in Visio 2010, but still appear in the Size & Position window:

X	Y
Begin X	Begin Y
End X	End Y

Changes in Microsoft Visio 2010 - Customize ink pens

The Customize Pens dialog box is removed in Visio 2010 and replaced with the new Pens model that is used by OfficeArt and OneNote. Visio 2010 no longer persists settings for five distinct pens in the registry. Users can no longer see an entry point for the Customize Pens dialog box or access the dialog box by any means. Instead, users can customize ink pen properties by using the controls on the Ink Tools tab.

Changes in Microsoft Visio 2010 - Colour by Value

The Colour By Value add-on no longer functions in Visio 2010. It is replaced by the Data Graphics feature set, which provides more functionality.. Shapes no longer contain right-click actions to open the add-on.

Changes in Microsoft Visio 2010 - What's removed

This section provides information about removed features in Visio 2010.

Changes in Microsoft Visio 2010 - ShapeStudio

The ShapeStudio tool available in previous versions of the Visio SDK has been removed from the Visio 2010 SDK.

Changes in Microsoft Visio 2010 - Status bar

The following status items are removed from the status bar in Visio 2010:

Begin	End
Dx	Dy
Snap	Top
Bottom	Left
Right	Tile
Tile Row	Tile Column
Ancestor	

The status bar in the Fluent UI focuses on higher priority status items, many of which have the added utility of being actionable.

Changes in Microsoft Visio 2010 - Find Shape feature

The Find Shape server feature previously available in Visio enabled users to search for shapes installed on the Microsoft Web sites. Additional, new, and updated shapes were then made available together with those already on the local computer.

The Find Shape feature no longer connects to the Internet to look for additional Visio shapes as did in previous versions. The Find Shape feature no longer connects to additional Web servers that an administrator might have set up to host additional shapes. Instead, users must download the content from Office Online. Users can access download instructions by using the Find Shapes Online command on the More Shapes menus.

With this change, the Find Shape feature will display search results found only on the local computer.

In Visio 2010, the user can toggle the user interface on and off by using the Search for Shapes toggle available on the More Shapes menu.

Changes in Microsoft Visio 2010 - Stencil docking

The redesign of the Shapes Window in Visio 2010 is now optimized for the vertical orientation of the window. Therefore, in Visio 2010, stencils are docked on the left or right of the Shapes Window with docking in the top and bottom positions no longer allowed

Zooming via Keyboard Shortcuts

Position the mouse pointer over the top of the shape on which you want to zoom.

CTRL+SHIFT

+ Left mouse button click	Zoom in
+ Right mouse button click	Zoom out
+ Left mouse button & drag	Marquee zoom in
+ Right mouse button & drag	Hand, scroll page

CTRL+W

This is the same as choosing **Whole Page** from the Zoom menu.